



**THE ARIZONA ROOFING  
CONTRACTORS ASSOCIATION**

**PRESENTS**

**SAFETY  
GUIDELINES  
FOR THE  
ROOFING  
CONTRACTOR**



# **SAFETY GUIDELINES FOR THE ROOFING CONTRACTOR**

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**ARCA P.R.I.D.E.**  
**PROMOTING ROOFING INDUSTRY**  
**DEVELOPMENT & EDUCATION**



**SECTION A**

**ARCA INFORMATION**



# FOREWORD

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## DISCLAIMER

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# ARIZONA ROOFING CONTRACTORS ASSOCIATION

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**Phoenix, Arizona 85015**

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# HISTORY OF ARCA

In 1969, several farsighted individuals started talking about the formation of a statewide group to fulfill the needs and unite the contractors in the roofing industry in Arizona. Representatives from the Central Arizona Roofing Contractors Association and the Tucson Roofing Contractors Association met, resulting in the formation of the Arizona Roofing Contractors Association, a non-profit trade association that has been serving the roofing industry ever since.

The President of the Central Arizona Roofing Contractors Association, Robert Wardle from Asbestos Engineering Company in Phoenix, and the President of the Tucson Roofing Contractors Association, Wayne Vose from Johnson-Vose, Inc. in Tucson, were the main originators with many others assisting. Both of these gentlemen went on to serve as President of the Arizona Roofing Contractors Association. Wayne served a total of four terms and has been honored as a Life Member of our organization, one of only seven ever awarded. Wardle passed away a number of years ago.

ARCA, as we are now known, has grown to become the largest subcontractor association in Arizona, with over 300 Members from all areas of the state, and we are still growing. We are involved in many areas, assisting our Members and insuring the integrity of the roofing industry in our state.

Membership benefits for ARCA Members are second to none and 130 of our Members subscribe to the ARCA / SCF of Arizona Dividend Plan, where Members receive bonus money over and above their Worker's Compensation insurance dividend checks. Our ARCA bonus has averaged between 40% and 50% for the past 24 years and has resulted in our Members earning over \$5 Mill on Dollars in *BONUS MONEY ALONE*.

ARCA represents Member Roofing Contractors at the Registrar of Contractors office, the Arizona Subcontractors Council, the Arizona legislature and many other state and federal offices. We have twenty-three active committees working to help insure our Members success.

We also sponsor and participate in many charities, including Christmas in April, Habitat For Humanity, the Christmas Adopt A Family Program for the Salvation Army and the Youth At Risk Foundation. Our contribution to the Youth At Risk Foundation this year is \$25,000, which brings our total contribution to this worthwhile charity to over \$100,000 in the past five years. Our Members also work for and contribute to many local charities in their communities.

The success our Association has achieved over the years is attributable to many hard working people representing all facets of the roofing industry, but none more than those that worked and sacrificed in the beginning to form the Arizona Roofing Contractors Association. We owe a debt of gratitude to all of those that came before us and laid the foundation for our success.

We also owe a debt of gratitude to Jeff Starkweather of Starkweather Roofing and Rick Thomas from Rick Thomas Roofing for the three years of hard work and sacrifice that went into the compilation and publication of this Safety Manual. We thank them and we also acknowledge the tremendous assistance of Julie Pace from the law firm of Stinson, Morrison & Hecker for her invaluable advice and counsel in the formation of this manual. A job well done to all the above.

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## **ARCA P. R. I. D. E.**

### **PROMOTING ROOFING INDUSTRY DEVELOPMENT & EDUCATION**

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ARIZONA ROOFING  
CONTRACTORS ASSOCIATION

# MEMBER SERVICES

## ARCA MEMBER DECALS

DISPLAY YOUR MEMBERSHIP IN  
ARCA TO YOUR CUSTOMERS



AVAIL.ABLE AT MINIMUM CHARGE

## ARCA MEMBER LIST MAILING LABELS

Send your information to  
ARCA Members...

AVAIL.ABLE AT MINIMUM CHARGE

J GNR"KP ETGCUG"RWRNKE "CY CTGP GUU#"

USE ARCA BUMPER STICKERS ON YOUR COMPANY VEHICLES

**ARIZONA  
ROOFING CONTRACTORS  
ASSOCIATION**

LICENSED • QUALIFIED • PROFESSIONAL ROOFING CONTRACTORS

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# MEMBERSHIP BENEFITS



**The Arizona Roofing Contractors Association is one of the oldest and most dynamic trade associations in Arizona!**

**ARCA Membership provides many benefits...**

- **ARCA is now the largest subcontractor trade association in Arizona!**
- **The ARCA - SCF of Arizona Worker's Compensation Insurance 'Association Dividend Plan' has already provided ARCA Members with millions of dollars in BONUS DIVIDENDS. Since 1972, the average BONUS has been 50% of the individual dividend! ARCA Members can manage their risks into assets. ARCA Members have received over Five Million Dollars in bonus dividends alone!**
- **Monthly dinner meetings and frequent seminars bring Members opportunities to educate their employees in various roofing industry topics and keep them up to date on topics affecting the operation of all roofing contractors.**
- **ARCA maintains extensive educational roofer training video and reference libraries for the free use of our Members.**
- **The Business Owner Magazine is provided to ARCA Members free of charge and contains a wealth of information to help save money, make better financial decisions and run their business more efficiently.**
- **ARCA is an affiliate member of the National Roofing Contractors Association and Western States Roofing Contractors Association. We work with more than 100 roofing contractor associations throughout the U.S. As a Member of ARCA, you have access to these organizations and their information.**
- **ARCA hosts various social events and Members may participate in an annual convention and trade show, golf tournaments, fun nights, charity events.**
- **ARCA maintains current information on the license requirements of every state in the United States for our Members.**
- **ARCA is known as one of the best roofing contractor associations in America!**



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**SECTION B**

**ROOFING INDUSTRY**

**OSHA STANDARDS**



# OSHA STANDARDS

Vj ku'ugevkqp"eqpvckpu"e'r ctvkn'huv'qh'QUJ C"Ucpcf ctf u'tgs wkt gf "hqt"vj g'tqqhkp " kpf wut { 0Rngcug'tghgt "vq" { qwt "hrecn'QUJ C"qhleg'hqt"e"eqp3r ngvg'kpvgr tgvckqp"qh'vj g" pgeguuct { "ucpcf ctf u0"

Cny c { u'tghgt "vq"ucvg"cpf "hrecn'tgi wvckqp"

## OSHA STANDARDS

30' I gpgtcn'F w{ 'Erwug"

40' Hcm'Rtqvgevkqp"

50' Ncf fgtu"

60' Grgvtlecn'Ucpcf ctf u'hqt'Eqputwvckqp"

70' Tgeqtf nggr kpi "

80' Hktg'Rtqvgevkqp'Rcp"

90' Hktuv'CKf

: 0' J qwugnnggr kpi "

; 0' Rgtuqpcn'Rtqvgevkxg'Gs wkr o gpv"

320' Cudguvqu"

330' Uechhqr f u"

340' Ngcf "Ucpcf ctf "

350' Tgur ktcvqt { 'Rtqvgevkqp"

360' Dmqf "Dqtp"Rcvj qi gpu"



# GENERAL DUTY CLAUSE

J c| ctf qwu"eqpf kkpqpu"qt'r tcevelegu"pqv'eqxgtgf "kp"cp"QU C"ucpf ctf "o c{ "dg"eqxgtgf "wpf gt "Ugevkqp"7\*c+\*n"qh"  
vj g"Qeewr cwkqpcn"Uchgv "cpf "J gcnj "Cev'qh'3; 92'y j lej "ucvgu<\$Gcej "go r m{ gt "uj cmlhwtpkuj "vq"gej "qh'j ku"  
go r m{ ggu"go r m{ o gpv'cpf "c'r nceg"qh'go r m{ o gpv'y j lej "ctg"htgg"htqo "tgeqi pk gf "j c| ctf u'vj cv'ctg'ecwulpi "qt"  
ctg'rkngn "vq'ecwug"f gcj "qt'ugtkqu'r j { ukecnj cto "vq'j ku"go r m{ ggu\$"



# FALL PROTECTION

## WHEN FALL PROTECTION APPLIES:

Ceeqtf lpi "qj"; 480723. 'hmlr tqvevqp'ku'tgs wktgf 'hqt'cm'go r nq{ ggu'qp'y cmlpi "qt'y qtnlpi 'uwlhcegu'y kj "cp" wpr tqvevqf 'ukf g'qt'gf i g'y cv'ku'ukz 'hggv'qt'o qtg'cdqxg'c'rqy gt'rgxgr0"Unprotected side or edge ku'f ghkpgf "lp" E3; 480722"cu'cp{ 'ukf g'qt'gf i g'y 'j gtg'yj gtg'ku'pq'y cmlqt'i wctf tcklu{ ugo "cv'rgcu'5; 'lpej gu'j ki j 0'

P qvg<These are new criteria. The triggers were formerly a ground -to-eave height of 16 feet or more, and the absence of a parapet wall at least 36 inches high.

Vl RGU'QH'HCNN'RT"QVGEVKQP "U UVGO U"

**ON LOW-SLOPE ROOFS** \*tqqhu'y kj "c'unqr g'qh'guu'yj cp'6'lp'34+ 'hmlr tqvevqp'o c{ 'eqpukv'qh"

~Á ~~aa~~ wctf tcklu{ ugo ="

ÉÁ c'uchgv{ 'pgv'u{ ugo ="

~Á ~~aa~~ gtupcn'hml'cttguv'u{ ugo ="qt"

ÉÁ c'eqo dlpckvqp'qh'c'y ctpkpi 'hpg'u{ ugo "cpf 'uchgv{ "o qpkqtkpi ""u{ ugo 0'

Qp'tqqhu'72'hggv'qt'guu'lp'y kf yj . 'y g'wug'qh'c'uchgv{ "o qpkqtkpi "u{ ugo "cnpg'ku'r gto kwgf 0'

**Note:** These regulations apply to all types of low-slope roofing. Previously, the standard was titled the "built-up roofing standard."

**ON STEEP-SLOPE ROOFS** \*tqqhu'y kj "c'unqr g'qh'6'lp'34"qt'i tgcvtg+ 'y qtngtu'o wuv'dg'r tqvevqf "ltqo " hmlpi "d{ "gkj gt<

ÉÁ c'i wctf tcklu{ ugo 'y kj "vqg'dqctf u="

ÉÁ c'uchgv{ 'pgv'u{ ugo ="qt"

ÉÁ c'r gtupcn'hml'cttguv'u{ ugo 0'

P qvg<"The provisions covering the safe use of roofing brackets, catch plat forms, and chicken ladders are not contained in Subpart M; rather, they can be found in the Scaffolding section. It is important to note that roofing brackets used alone do not satisfy the fall protection requirements. They must be supplemented with guard rails and toeboards or personal fall arrest systems.

Ecvej 'r rvhqtu u'f q's wcrkh{ "cu'uechhqr u'y kj "i wctf tcklu'cpf "ecp'dg'wugf 'hqt'hmlr tqvevqp'qp'uvgr /'unqr g'tqqhu0' Cnq.'ecvej 'r rvhqtu u'o wuv'gzvqpf "cv'rgcu'4'hggv'dg{ qpf 'y g'gf i g'qh'yj g'tqqh0Ci clp.'vqgdqctf u'ctg'tgs wktgf "qp" cmluvgr 'tqqhu0'

Etcy npi "dqctf u'qt'ej kengp'rcf fgtu'o wuv'gzvqpf "ltqo 'y g'tkf i g'v'j g'gxcgu'cpf "o wuv'dg'ugewtgf 'y kj 'tkf i g" j qqmu0Dqctf u'o wuv'dg'cv'rgcu'32'lpej gu'y kf g'cpf '3lpej 'y lem'y kj 'ergcu'qh'3lpej 'd{ '30'lpej gu0Vj g'ergcu'o wuv' dg'yj g'uco g'y kf yj "cu'yj g'dqctf . "cpf 'ur cegf "cv'gs wcrh'pvtxcnu'qh'pq'o qtg'yj cp'46'lpej gu0Vj g'pcku'yj cv'j qrf 'y go " lp'r nreg'o wuv'dg'f tkxgp'cm'yj g'y c{ 'y tqwi j "cpf "erlpej gf "wpf gtpgcvj 0Cf fklqpcml . "c'rhkpkpg'qt'cpqvj gt'f gxleg'yj cv' ecp'dg'wugf "cu'c'j cpf j qrf "o wuv'dg'utwpi 'pgzv'v'gcej 'rcf fgt0'

**ON ALL RESIDENTIAL ROOFS**, y j gvj gt'rqy /unqr g'qt'uvgr /unqr g.'c'hmlr tqvevqp'r ncp'o c{ "dg'f gxcgr gf " cpf "lo r ngo gpvqf 'y j gp'yj g'go r nq{ gt'ecp'f go qputcv'g'yj cv'eqpxgp'vqpcr'hmlr tqvevqp'u{ ugo u'ctg'gkj gt" lphcukdrg'qt'r qug'c'i tgcvtg'j c| ctf 0Vj g'tgs wktgo gpw'ht 'hmlr tqvevqp'r ncpu'ctg'hqwpf "lp'3; 480724\*M0\*Rgcug" ugg'r ci g'6"/; 'hqt'yj g'kpvgtko 'HmlRtqvevqp'Ego r rkepeg'I wkt grikpu'ht "T gukf gpvknEqputwvqp+"'



# FALL PROTECTION

**AT HOIST AREAS** c'v'gcu'8'hggv'cdq'g'c'ny gt'rgxgn'go r m{ ggu'o wuv'dg'r tqv'g'f ""d{ <

ÉÁ c'i wctf tckn'u{ ugo =qt"

ÉÁ c'r gtuqpcn'hcm'cttgu'u{ ugo 0'

ÉÁ g'i wctf tckn'u'tgo q'xgf 'f wtkpi 'j q'k'kpi 'cpf 'y' g'go r m{ gg'p'ggf u'v'q'rgcp'q'w'q'xgt 'y' g'tq'qh'gf i g.'j' g'o wuv'dg' r tqv'g'f 'd{ 'c'r gtuqpcn'hcm'cttgu'u{ ugo 0'

P GCT'J QNGU'k'p'nmf kpi 'um' rki j w'u'o q'tg'y' cp'8'hggv'cdq'g'c'ny gt'rgxgn'go r m{ ggu'o wuv'dg' r tqv'g'f 'd{ <

ÉÁ c'r gtuqpcn'hcm'cttgu'u{ ugo =

ÉÁ c'i wctf tckn'u{ ugo =qt"

ÉÁ eqxgtu'k'p'ucmgf 'q'xgt 'y' g'j' q'ngu0'

É3; 480722'f g'h'k'p'gu'c'j' q'ng'cu'cp{ 'qr g'p'kpi 'y' q'k'p'ej gu'qt'o q'tg'k'p'cp{ 'f'lo g'puk'q'p0Rt'q'x'k'uk'q'pu'h'qt'eq'xgt'k'pi 'j' q'ngu'ecp' dg'h'q'wpf 'k'p'É3; 480724'k'K0'

RTQVGEV'KQP 'HT'QO 'HC'NN'KPI 'QDLGE'VU'o wuv'dg'r tq'x'k'f g'f 'v'q'c'm'go r m{ ggu'g'zr qu'gf 'v'q'y' k'u'j' c| ctf 0''' R'tq'v'g'v'k'p'o wuv'k'p'nmf g'j' ctf 'j' cu'r'nu'p'p'g'q'h'y' g'h'q'ny kpi <

ÉÁ V'qgdq'ctf u.'uetggpu'qt'i wctf tckn'u{ ugo u'y' cv'r'tgx'gpv'qdl'geu'ht'qo 'h'cn'kpi 'ht'qo 'c'j' k'j' gt'rgxgn' qt"

“Á C'Á'cpqr { 'v'q'ec'v'ej 'h'cn'kpi 'qdl'geu'qt'“k'k'c'ecpqr { 'k'u'w'ugf.'qdl'geu'c'v'y' g'j' k'j' gt'rgxgn'o wuv'dg'r r'ceg'f "cy c{ 'ht'qo 'y' g'gf i g0="qt"

“Á C'd'ctt'lecf g'gt'ge'v'f 'c'v'y' g'ny gt'rgxgn'v'q'r tq'v'g'v'y q'tngtu'cpf 'y' g'r'wdr'ke0V'j' g'd'ctt'lecf g'o cv'gt'k'ri o wuv'j' cx'g'c'dt'g'cn'kpi 'ut'gpi y' 'q'h'c'v'h'gcu'422'ndu0'

**I WCTFTCKN'U' UGO U'**

*P'q'v'g'2In general, the provisions for using guardrail systems on steep-slope roofs are the same as for low-slope roofs, with one exception: toeboards must be added on steep- slope roofs to prevent employees and materials from sliding off the roof.*

r0'''V'j' g'v'qr 'gf i g'j' g'k'j' v'q'h'y' g'v'qr 't'ckn'u'o wuv'dg'd'gwy ggp'5; 'cpf'67'l'p'ej gu'cdq'x'g'y' g'y' q'tn'kpi 'rgxgn0'

40' O'k'f' tckn'u'qt'uetggp'o wuv'dg'k'p'ucmgf 'd'gwy ggp'y' g'v'qr 't'ckn'cpf 'y' g'y' q'tn'kpi 'rgxgn'y j' gp'y' gt'g'k'u'p'q' " y' c'm'qt'r' c'tcr g'v'c'v'h'gcu'43'l'p'ej gu'j' k'j' 0'

c0ÁO'k'f' tckn'u'o wuv'dg'k'p'ucmgf 'o' k'y' c{ 'd'gwy ggp'y' g'v'qr 't'ckn'cpf 'y' g'y' q'tn'kpi 'u'w'h'ceg0'

d0ÁU'etggpu'o wuv'g'z'v'p'f 'c'm'y' g'y' c{ 'ht'qo 'y' g'v'qr 't'ckn'v'q'y' g'y' q'tn'kpi 'u'w'h'ceg0'

e0Ák'p'v'gto g'f'k'v'g'o go d'gtu'k'p'ucmgf 'd'gwy ggp'r' qu'u'o wuv'p'q'v'dg'o q'tg'y' cp'3; 'l'p'ej gu'c'r'c'tv0'

f 0ÁC'f'f'k'k'q'pcn'o k'f' tckn'u'cpf 'q'y' gt'ut'w'ew'cn'o go d'gtu'o wuv'dg'k'p'ucmgf 'u'q'y' c'v'y' gt'g'c'tg'p'q'qr g'p'kpi u'k'p' y' g'i wctf tckn'u{ ugo 'i' t'g'c'v'g't'y' cp'3; 'l'p'ej gu0'

50' I' wctf tckn'u{ ugo u'o wuv'dg'ecr'cdng'q'h'y' k'j' u'c'p'f'kpi 'c'h'q'teg'q'h'c'v'h'gcu'422'ndu0C'r'r'ngf 'cp{y j' gt'g'c'm'pi 'y' g'v'qr " gf i g'y' k'j' q'w'h'ck'k'pi 0'

60' Y' j' gp'c'h'q'teg'q'h'422'ndu0k'u'c'r'r'ngf 'v'q'y' g'v'qr 'gf i g'q'h'y' g'i wctf tckn'y' g'tckn'o wuv'p'q'v'f g'h'g'ev'v'q'c'j' g'k'j' v'rguu' y' cp'5; 'l'p'ej gu'cdq'x'g'y' g'y' q'tn'kpi 'u'w'h'ceg0'

70''O'k'f' tckn'u'uetggpu.'cpf 'q'y' gt'ut'w'ew'cn'o go d'gtu'o wuv'dg'cdng'v'q'y' k'j' u'c'p'f 'c'h'q'teg'q'h'c'v'h'gcu'372'ndu'y' k'j' q'w' " h'ck'k'pi 0'

80' I' wctf tckn'u{ ugo u'o wuv'j' cx'g'u'w'h'cegu'y' j' k'ej 'y' k'n'p'q'v'r' w'p'ew't'g'qt'nc'eg't'c'v'g'go r m{ ggu'qt'up'ci 'y' g'k't'em'y' kpi 0'

90' V'j' g'g'p'f u'q'h'v'qr 'tckn'u'cpf 'o' k'f' tckn'u'o wuv'p'q'v'r' t'q'l'ge'v'dg{ q'p'f 'y' g'v'gto k'pcn'r' qu'u'k'p'c'j' c| ctf q'wu'o c'p'p'gt0'



# FALL PROTECTION

: 0" Uggnd'qt'r mune'dcpf lpi 'ecppqv'dg'wugf 'hqt'vqr 'tcknu'qt'o kf tcknu0'

; 0" Vqr 'tcknu'cpf'o kf tcknu'o wuv'dg'cv'hcuv'3 l6'lpej 'y len0k'y ktg'tqr g'ku'wugf . 'k'o wuv'dg'hnci i gf 'cv'hcuv'gxgt { '8'hggv' y kj 'j ki j /xkukdkkx' 'o cvgtkcr0'

320ÁY j gp'wugf 'cv'j qkukpi 'ctgeu.'c'ej clp.'i cvg.'qt'tgo qxcdng'i wctf tckn'ugev'kp'o wuv'dg'r megf 'cetquu'y'j g'ceeguu' qrgp'pi 'y j gp'j' qkukpi 'ku'pqv'cnkpi 'r megf0'

330ÁY j gp'wugf 'ctqwpf'j qrgu.'i wctf tcknu'o wuv'dg'gtgevgf 'qp'cm'wpr tqvevgf 'ukf gu'qh'y'j g'j qrg0'

340ÁY j gp'wugf 'ctqwpf'j qrgu'y tqwi j 'y j lej 'o cvgtkcr'ku'dgkpi 'r cuugf . 'qpn' 'y q'ukf gu'qh'y'j g'j qrg'ecp'j' c'xg' tgo qxcdng'i wctf tckn'ugev'kp'u0Vj g'j qrg'o wuv'dg'eqxgtgf 'qt'r tqvevgf 'qp'cm'ukf gu'd' { 'y g'i wctf tckn'y j gp'pqv'lp' wug0'

350ÁY j gp'wugf 'ctqwpf'ceeguu'qr gplpi u'uwej 'cu'mf f gty c { u.'i wctf tcknu'o wuv'dg'i cvgf 'qt'qh'ugv'q'r t'gxgpv' go r m { ggu'htqo 'y cmkpi 'f k'geva' 'lpv'q'y'j g'j qrg0'

360ÁY j gp'wugf 'qp'tco r u'cpf 't'wpy c { u.'i wctf tcknu'o wuv'dg'gtgevgf 'cm'pi 'cm'wpr tqvevgf 'ukf gu'0'

370ÁTqr g'wugf 'hqt'vqr 'tcknu'cpf'o kf tcknu'o wuv'dg'lpur gevgf 'tgi wctn' { 'v'g'puwtg'y'j cv'k'o ggu'y'j g'utgpi y' " tgs wktgo gpu'ugv'htq'y'j 'lp'y'j ku'ugev'kp0'

UCHGV[ 'P'GV'U UVGO U'

30Á Uchgv' 'pgu'o wuv'dg'lpucmgf 'cu'emug'cu'r quukdr'v'q'y'j g'y qtnkpi 'uwt'heg.'dw'pq'o qtg'y'j cp'52'hggv'dgrqy 'k0'

40Á Uchgv' 'pgu'o wuv'gzvgpf 'qwy ctf 'htqo 'y'j g'tqqh'gf i g'""cu'hmqy u' "

" " F K U V C P E G ' H T Q O ' T Q Q H ' V Q ' P ' G V ' " F K U V C P E G ' P ' G V ' O W U V ' G Z V G P F ' Q W Y C T F ' "

" " " W' 'v'q'7'hggv' " : 'hggv'

" " " 7'/'32'hggv' " 32'hggv'

" " " O qtg'y'j cp'32'hggv' " 35'hggv'

50Á Uchgv' 'pgu'o wuv'j c'xg'gpqwi j 'i tqwpf 'ergetcpeg'v'q'uqr 'y'j g'y gki j v'ur gek'k'f 'lp'\*6+\*c+y'j kj qw'hgw'kpi 'k'j k' y'j g'i tqwpf 0'

60Á Uchgv' 'pgu'o wuv'dg'ecr c'ng'qh'cduqtdkpi 'y'j g'lo r cev'hteg'ur gek'k'f 'lp'\*6+\*c+y'j kj qw'hgw'kpi 'k'j k' y'j g'i tqwpf 0'

c0Á Uchgv' 'pgu'o wuv'dg'f'tqr /v'ugf 'cv'j g'lqdukg'ch'gt'lpucm'v'kp.'t'gmec'v'kp.'o clqt'tgr ckt.'qt'c'v'ukz/o qp'y'j " lpvgtxcu'k'lp'q'v'o q'xgf 0'Vj g'f'tqr 'v'ug'v'j cm'eqpuk'v'qh'c'622/nd0ucpf dci 'f'tqr r gf 'htqo 'y'j g'y qtnkpi 'h'gxgr0'

d0Á Y j gp'c'f'tqr 'v'ug'ku'pqv'hcukdr.'y'j g'go r m { gt'o wuv'j c'xg'c'y'j tkwgp'egt'v'k'ec'v'kp't'geqtf 'k'f gp'v'k' lpi 'y'j g'pgv'cpf' " ku'lpucm'v'kp'cpf 'u'cv'kpi 'y'j gp'k'y'j cu'f'gvto k'p'gf 'v'q'dg'lp'eqo r k'cpeg'y'j kj 'y'j g'r tqxkuk'pu'qh'y'j g'f'tqr 'v'ug'0'

70Á F gh'gev'x'g'uchgv' 'pgu'o c { 'pqv'dg'wugf 0P'gu'o wuv'dg'lpur gevgf 'y'j ggm' { 'cpf'ch'gt'cp { 'qeewt'gpeg'y'j lej 'o c { " ch'gev'y'j gkt'lp'v'gi tk'f . 'cpf'f'gh'gev'x'g'eqo r qp'gpw'tgo q'xgf 'htqo 'ugt'x'leg0'

80Á Qdlgeu'y'j lej 'hcm'lpv'q'y'j g'pgv'o wuv'dg'tgo q'xgf 'r tqo r v'k' 0'

90Á Uchgv' 'pgv'o guj 'ecppqv'j c'xg'cp'qr gplpi 'i tgcvt'y'j cp'58'us wctg'lp'ej gu'qt'mpi gt'y'j cp'8'lp'ej gu'qp'cp { 'ukf g0'

: 0Á Uchgv' 'pgu'o wuv'j c'xg'c'dqtf gt'tqr g'ht'y'j gddkpi 'y'j kj 'c'o k'p'k'o wo 'dtgcnkpi 'utgpi y'j 'qh'7.222'ndu0'

; 0" Epppge'v'kp'u'dgwy ggp'uchgv' 'pgv'r cp'gn'u'o wuv'dg'cu'utqpi 'cu'y'j g'lp'f k'k'f wcn'eqo r qp'gpw'cpf'o wuv'dg'ur cegf 'pq' o qtg'y'j cp'8'Á'pej gu'cr ctv0'

"

RGTUQP CN'HCNN'CTTGUV'U UVGO U'



# FALL PROTECTION

**Note:** Further changes in the personal fall arrest system provisions took effect on January 1, 1998. As of that date, safety belts are no longer acceptable as part of a fall protection system, but only as positioning devices which are "rigged to allow an employee to be supported on an elevated vertical surface, such as a wall, and work with both hands free." Also, only the locking type of snaphook will be allowed.

The strength requirements for personal fall arrest systems have changed. Check with your supplier to ensure that your system meets the new criteria. Contractors should note paragraph (16)(c), which states that personal fall arrest systems must be rigged on-site to prevent a free fall of more than 6 feet.

30. A fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

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70. A fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

80. A fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(a) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(b) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(c) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(d) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(e) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

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130. A fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

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180. A fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(a) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.

(b) The fall protection system shall be designed, installed, and used so that no employee would be subjected to free fall of more than 6 feet.



# FALL PROTECTION

e0 dtlpi "y g'go r m{ gg'v'c"eqo r rvg'uqr "cpf "lko k'y g'o czko wo "f gegngtcvkp" f kncpeg"j g'tcxgm'v'507""  
hggv="

f 0'dg'utqpi "gpqwi j "v'y kj ucpf "y keg'yj g'r qvgpvkcnlko r cev'gpgti { "qh'cp"go r m{ gg'ltggkmpkpi '8Á  
" hggv'qt'y j cvxgt'ltggkmpkpi f kncpeg'yj g'u{ ugo "cmqy u0'

390Á d{ { "j ctpguugu'o wuv'dg'cwcej gf "kp'dcem'dgy ggp'yj g'uj qwf gtu'qt"cdqyg'yj g'y gctgt'u'j gcf 0"

3: 0Á Rgtuqpcnlhcm'cttguv'u{ ugo u'o wuv'pqv'dg'wugf "v'j qkv'o cvgtknu0'

3; 0Á hgt'dgkpi "uwdlgevgf "v'ko r cev'r gtuqpcnlhcm'cttguv'u{ ugo u'cpf "eqo r qpgrpu'o wuv'dg'tgo qxgf "ltqo "  
ugtckeg"cpf "kpur gevgf "d{ "c"eqo r gvgpv'r gtuqp "dghgtg'tgwug0'

420Á Rgtuqpcnlhcm'cttguv'u{ ugo u'o wuv'dg'kpur gevgf "r tkqt "v'gcej "wug."cpf "f ghgevkxg"eqo r qpgrpu'tgo qxgf "  
ltqo "ugtckeg0'

430Á Rgtuqpcnlhcm'cttguv'u{ ugo u'o wuv'pqv'dg'cwcej gf "v'i wctf tcku'qt"j qkvu0'

440Á Y j gp'wugf "cv'cÁ qkv'ctgc."y j g'r gtuqpcnlhcm'cttguv'u{ ugo "o wuv'lko k'y g'go r m{ gg'u'o qxgo gpv'v'j g'tqqh"  
gf i g0'

RQUK/KP KPI 'F GXKEGU'

**Note:** Safety harnesses, lifelines, and lanyards need constant attention to avoid entanglement. Y j gp'an employee moves out of range, he mu.st immediately rehook his body harness to a point that will reach the desired area.

" n0' Rqukkqpkpi "f gxlegu'o wuv'dg'cwcej gf "v'cp"cej qt "ecr cdng"qh'dgctkpi "cv'ngcu'vy keg'yj g'r qvgpvkcnlqcf "qh'cp"  
go r m{ gg'u'hcm'qt"5.222'ndu0'y j lej gxgt'ku'i tgcvt0'

40' Eqppgevtu'o wuv'dg'o cf g'qh'f tqr /hqi gf ."r tguugf ."qt'hqto gf "uvgnlqt"gs wxcrnpv'o cvgtknu0'"

50' Eqppgevtu'o wuv'j cxg"ceqttukqp/tgukrcpv'hkpij ."y kj "uo qqy "uwthcegu"cpf "gf i gu0'

60' Eqppgevkpi "cuugo dng'u'o wuv'j cxg"c'o kpi wo "vgpukg"utgpi y "qh'f ÁÁÁÁÁdu0'

70' F gg/tkpi u'cpf "upcr j qqm'u'o wuv'dg'r tqqh/vgugf "v'c"o kpi wo "vgpukg"qcf "qh'5.'822'ndu0'"

80' Upcr j qqm'u'o wuv'dg'uk gf "cr r tqr tckvgn{ "v'r tggpv'ceekf gpv'nf kugpi ci go gpv."qt"o wuv'qen0'

90' Wprguu"upcr j qqm'ku"qenmkpi "v{ r g'f guki pgf "hqt'yj g'hqmgy kpi "eqppgevkpu."k'o wuv'pqv'dg'cwcej gf <  
c0Á f ktgevn{ "v'y gddkpi ."tqr g."qt'y ktg'tqr g="

d0Á v'cpqy gt"upcr j qqm="

e0Á v'c"fgg/tkpi "v'y j lej "cpqy gt"upcr j qqm'lt"eqppgevt'ku'cwcej gf ="

f 0Á v'c"j qtk qpvcnlhkgkpg="

g0Á v'cp{ "qdlgev'y cv'eqwf "ecwug'yj g'upcr j qqm'v'dgego g'f kugpi ci gf 0'

: 0Á Rqukkqpkpi "f gxlegu'o wuv'dg'kpur gevgf "r tkqt "v'gcej "wug."cpf "f ghgevkxg"eqo r qpgrpu'tgo qxgf "ltqo "ugtckeg0'

; 0Á Rqukkqpkpi "f gxlegu'o wuv'pqv'dg'wugf "v'j qkv'o cvgtknu0'



# FALL PROTECTION

## STD 3.1 INTERIM FALL PROTECTION COMPLIANCE GUIDELINES FOR RESIDENTIAL CONSTRUCTION.

Rwtr qug0QUI C"j cu'f gekf gf "v'w'pf gt'wng'hw'j gt'twgo cnkpi 'tgi ctf kpi 'y' g'hm'r tq'vgevkp'ucpf ctf u'hqt" eqputwevkp."4; "EHOT0Rctv3; 48."Uwdr ctv'O."cpf 'ku'o qxlpi 'g'zr gf k'k'q'wun' 'v'y ctf ""'y' g'r wdr'ecvkp'qh'c'P'q'v'eg" qh'Rtqr qugf 'Twgo cnkpi "P'RT0-0"Vj ku'r tqeggf kpi 'y' km'cf f t'gu'eqpegtpu't'ckugf 'd{ "QUI C"eqo r r'k'peg" r gtuqppgr'cpf 'd{ 't'gr t'gug'p'v'k'x'gu'qh'y' g't'gukf gp'v'cn'eqputwevkp'k'pf wut { 0Vj ku'k'putwevkp'c'f f t'gu'gu'y' g'k'p'v'g't'ko " hm'r tq'vgevkp'o gcu'w'gu'y' cv'y' km'd'g'cegr w'd'rg'hqt'eqo r r'k'peg."Y'kj "3; 48072m'd+\*35+ 't'gukf gp'v'cn'eqputwevkp." f'v'k'pi 'y' g't'wgo cnkpi 'r'g't'kf 0'

Uwdr ctv'O "f'qgu'p'qv'f gh'p'g' 't'gukf gp'v'cn'eqputwevkp'0' "Hqt'y' g'r w'r qugu'q'h'k'p'v'g't'ko "eqo r r'k'peg"i w'k'f c'peg'w'pf gt" y' ku'f k'ge'v'k'g."y' g'v'g'to "t'gukf gp'v'cn'eqputwevkp' "s'cr r r'k'gu'v'q' u't'wewt'gu'y' j g't'g'y' g'y' q't'n'k'pi "gp'x'k'q'po gp'v."cpf 'y' g' eqputwevkp'o cv'g't'k'n."o g'y' q'f u."cpf 'r' tqegf w'gu'go r m'q { g'f 'c't'g'g'u'g'p'v'k'm' 'y' g'v'co g'cu'y' qug'w'ugf 'hqt'v'f r'k'ec'n' j q'w'ug'\*u'k'pi r'g'h'co k'f 'f'y' g'm'k'pi + 'cpf 'v'y' p'j q'w'ug'eqputwevkp'0' f'k'et'g'v'r' c't'u'q'h'c' 'r't'i g'eqo o g't'ek'n' u't'wewt'g'o c{ " eqo g'y' k'y' k'p'y' g'ue'q'r g'q'h'y' ku'f k'ge'v'k'g'\*hqt' "g'z'co r r'g."c'uj k'pi r'g'f "gp'v'c'peg'y' c{ "v'q'c'o c'm' "dw'u'we'j "eq'x'g't'ci g" f'qgu'p'qv'o g'cp'y' cv'y' g'gp'v'k'g' u't'wewt'g'y' g't'gd{ "eqo gu'y' k'y' k'p'y' g'v'g'to u'q'h'y' ku'f k'ge'v'k'g'0'

Vj ku'f k'ge'v'k'g'cr r r'k'gu'q'p'n' 'v'q'eqputwevkp'ce'v'k'k'k'gu'cpf "f'qgu'p'qv'c'h'ge'v'cp{ 'i' gp'g't'c'n'k'pf wut { "ce'v'k'k'k'gu." u'we'j "cu'dw'p'qv'h'ko k'gf 'v'q'v'g'g'v'k'lo o k'pi . 'y' cv'v'c'ng' 'r' m'eg'cv't'gukf gp'v'cn'uk'gu'0'

Vj g'r tqegf w'gu'eq'p'v'k'p'gf 'k'p'y' ku'k'putwevkp'y' k'n'it'go c'k'p'k'p'g'h'ge'v'w'p'v'k'hw'j gt'p'q'v'eg'qt'w'p'v'k'ie'qo r r'g'v'k'p'q'h'c'" p'gy' 'h'q'to c'n't'w'go cnkpi "g'h'q't'v'c'f f t'gu'k'pi 'y' g'ug'eqpegtpu."y' j k'ej g'x'g't'ku'g'c't'r'k'gt'0'

**Scope.** "Vj ku'k'putwevkp'cr r r'k'gu'QUI C/y' k'f g'0'

### References.

30ÁQUI C" 'k'putwevkp'ERN'40325."Ugr v'go d'gt'48."3; ; 6."H'grf "k'putwevkp'T'gh'g't'g'peg'O'cp'w'cn'0'

40ÁQUI C" 'k'putwevkp'UVR'4044C'EJ /6'O'c't'ej "5."3; ; 6."ej c'pi gu'v'q'y' g'U'cv'g'R'c'p'R'q'r'k'eg'u'cpf " Rt'q'egf w'gu'O'cp'w'cn'0'

**Action.** QUI C" 'T'gi k'q'p'cn'c'f o k'p'k'ut'cv'qt'uc'pf 'C't'g'c'F'k'ge'v'qt'u'uj c'm'w'ug'y' g'i w'k'f g'r'k'p'gu'cpf 'r' tqegf w'gu'ug'v'h'q't'y' 'k'p' y' ku'k'putwevkp'hqt'y' g'g'p'h'q't'ego gp'v'q'h'q'ee'w'c'v'k'p'cn'uch'g'v' 'cpf 'j' g'cm'j "uc'pf ctf u't'g'r'v'g'f 'v'q'eqputwevkp'" go r m'q { o gp'v'0'

**Federal Agencies.** Vj ku'k'putwevkp'f'g'u'et'k'd'gu'c'ej c'pi g'y' cv'c'h'g'ew' "H'g'f'g't'c'n'c'i' g'p'ek'gu'0'G'z'g'ew'k'x'g'Q't'f'gt'343; 8." U'ge'v'k'p'3/423."cpf "4; "EH"3; 82088'o c'k'p'v'k'p'y' cv'H'g'f'g't'c'n'c'i' g'p'ek'gu'o "c{ "c'n'q'h'q'm'y' "y' g'g'p'h'q't'ego gp'v'r'q'r'k'eg{ "cpf " r' tqegf w'gu'eq'p'v'k'p'gf 'k'p'y' ku'k'putwevkp'0'

H'g'f'g't'c'n'Rt'q'i' t'co "E'j c'pi g'0'Vj ku'k'c' "H'g'f'g't'c'n'r' t'q'i' t'co "ej c'pi g."y' j k'ej "k'o r'c'ew'U'cv'g'r' t'q'i' t'co u'0'U'cv'gu'c't'g" u't'q'pi n' "g'p'eq'w't'ci g'f 'v'q'c'f q'r'v'k'lo k'r't' "eqo r r'k'peg"i w'k'f g'r'k'p'gu'0'

30ÁVj g'T'gi k'q'p'cn'c'f o k'p'k'ut'cv'qt'uj c'm'g'p'uw't'g'y' cv'y' ku'ej c'pi g'ku'r' t'q'o r w'f 'h'q'ty' c't'f g'f 'v'q'g'cej "U'cv'g'f'g'u'k'i' p'g'g'v'w'k'pi " c'h'q'to c'v'eq'p'uk'v'g'p'v'y' k'y' 'y' g'E'j c'pi g'V'y' q/y' c{ "O'go q't'c'p'f'w'o "k'p'c'r r'g'p'f'k'z'C."U'cv'g'R'c'p'R'q'r'k'eg'u'cpf " Rt'q'egf w'gu'O'cp'w'cn'\*URO-0'

40ÁVj g'T'gi k'q'p'cn'c'f o k'p'k'ut'cv'qt'uj c'm'g'z'r' m'k'p'y' g'eq'p'v'g'p'v'q'p'y' ku'ej c'pi g'v'q'y' g'U'cv'g'f'g'u'k'i' p'g'g'u'cu't'g's'w'k'g'f'0'

50ÁVj g'U'cv'g'uj c'm'p'q'w'h{ 'y' g'T'gi k'q'p'cn'c'f o k'p'k'ut'cv'qt'y' k'y' k'p'52'f'c{ u'y' j g'y' gt'k'v'k'p'v'g'p'f' u'v'q'c'f q'r'v'c'v'k'lo k'r't' 'r'q'r'k'eg{ 0' k'v'y' g'U'cv'g'c'f q'r'w'f'k'f'g'p'v'ec'n'i' w'k'f g'r'k'p'gu."p'q'hw'j gt'f'q'ewo g'p'v'c'v'k'p'ku't'g's'w'k'g'f'0'k'v'y' g'U'cv'g'c'f q'r'w'f'k'k'h'g't'g'p'v' eqo r r'k'peg"i w'k'f g'r'k'p'gu."c'eq'r { "q'h'y' g'i w'k'f g'r'k'p'gu'uj c'm'd'g'r' t'q'x'k'f g'f 'v'q'y' g'T'gi k'q'p'cn'c'f o k'p'k'ut'cv'qt'0'



## FALL PROTECTION

**Background.** Qp'C'wi wu', :3; ; 6.'QU' C'r wdu'j gf 'c'h'p'c'n'w'g'k'p'v'j g'H'f g't'c'n'T'g'i k'ug't'\*:7; "HT'62893+'qp'h'm' r t'q'v'e'k'p'k'p'v'j g'e'q'p'u't'w'e'k'p'k'p'f w'u't {'\*:4; 'EHT'3; 48.'U'w'd'r c't'v'O +y j l'ej 'd'g'eco g'g'h'g'e'k'g.'g'z'eg'r v'h'q't'w'g'g'n'g't'g'e'k'p' c'e'v'k'k'g'u.'qp'H'g'd't'w'c't {'8.'3; ; 70'V'j g'p'gy "U'w'd'r c't'v'O "e'r't'h'g'f "c'p'f "g'z'r c'p'f g'f 'v'j g'f'w'w' "v'q'r t'q'x'k'f g'h'm'r t'q'v'e'k'p'k'p' "h'q't" go r m'j {g'g'u'g'p'i c'i g'f "k'p't'g'u'k'f g'p'w'c'n'e'q'p'u't'w'e'k'p'\*:3; 480'2'm'd'+\*r5 +0'V'j g't'w'g't'g's w'k'g'u'e'q'p't'c'e'q't'u'q' "w'ug'c'h'm' r t'q'v'e'k'p'k'p' r'nc'p'h'h'y g'f "e'c'p'p'q'w'ug'q'p'g'q'h'y g'e'q'p'x'g'p'k'p'c'n'o g'c'p'u'q'h'h'm'r t'q'v'e'k'p'k'p' \*i w'c't'f t'c'k'u.'r'g't'u'q'p'c'n'h'm'c't't'g'u'v' u'f' u'go u.'q't' "u'c'h'g'v' "p'g'u+0'V'j g't'w'g'h'w'v'j g't' "r' t'q'x'k'f g'u'y' c'v'go r m'j {g't'u'y' j q'f'g' go q'p'u't'c'v'g'y' c'v'k'k'u'l'p'h'g'c'k'k'g' "q't' "e't'g'c'v'g'u'c' "i t'g'c'v't'j' c'j' c't'f "q' "A'ug'e'q'p'x'g'p'k'p'c'n'h'm'r t'q'v'e'k'p'k'p' "o w'u'g'v'q'w'v'j g't'u'w'r' r'q't'v'k'i "t'c'w'q'p'c'g'k'p'c' "u'k'g' "u'r' g'e'k'h'e' "h'm' r t'q'v'e'k'p'k'p' r'nc'p.'y' j l'ej "c'n'u'g'c'f'f' t'g'u'g'u'y'j g'c'n'g't'p'c'v'k'g'o' g'c'u'w't'g'u'y' c'v'y' k'n'd'g'k'o' r'ng'o' g'p'v'g'f' "q'r' t'q'v'e'g'v'go r m'j {g'g'u'0'

QU C'ɛpɛkr cvɣf 'jɛ c'ɛqpuɛwɛkɔp'go r mɔ {gtu'y j q'j cɛxg'go r mɔ {ggu'ɫpuɛnɫpi 'gzvɛtɫt'y cɛnɪ cpɣnɪ. 'tɔqɫh'twauɣu' cɫf 'tɫɣtu. 'tɔqɫh'jɛ ɣɛv ɫpi . 'hɫqɫ'ɫɫɫu'cɫf 'tɫwauɣu'y qɫɫ 'uɣɣnɪvɫ'ɣuɛɫɫɫj 'jɛ g'ɛr r tɫɫɫɫɫɫɫɫ'qɫh'cɫɣtɫɫɫɫɫg'hɫm' r tɫɫɫɫɫɫɫɫ'ɫɫt'ɫhɫɫɫɫ'go r mɔ {ggu0Vj ɫtɫɫtɫ. 'jɛ g'Ci ɫpɫ { 'ɫpɛnɫ ɫf 'uɫo r nɫ'hɫmɪ tɫɫɫɫɫɫɫ'ɫɫp'ɫɫpi wɫi g'ɫɫt'jɛ ɣuɣ' cɫɫɫɫɫɫɫɫ'ɫɫC'r r ɫpɫ ɫz 'G'qɫh'jɛ g'hɫɫɫɫɫwɫ0

Vj g'P c'v'k'p'c'ri'Cu'w'k'c'v'k'p'q'h'i' qo g'D'w'k'f'g'tu'\*P C J D+'j' cu'cu'ug't'v'g'f' 'y' c'v'k'k'u'c'r'r' t'q'r' t'k'v'g' 'k'p'i' g'p'g't'c'n' 'q' 'w'ug' c'n'g't'p'c'v'k'g' 'h'c'm'i'r' t'q'v'g'v'k'p' 'o' g'c'u'w't'g'u'y' j' g'p' 'g'o' r' n'q'f' g'g'u'c't'g' 'g'p'i' c'i' g'f' 'k'p' 'y' j' g'c'v'k'k'k'g'u'k'f' g'p'v'h'k'g'f' 'd'f' 'C'r'r' g'p'f' k'z' 'G' 'c'u'y' g'm'i' c'u'k'p' 'y' q't'm'i'q'p' 'q'r' 'q'h'i'd'm'g'e'm'h'q'w'p'f' c'v'k'p' 'y' c'm'u' 'e'q'p'e't'g'v'g' 'h'q'w'p'f' c'v'k'p' 'y' c'm'u'c'p'f' 'h'q't'o' y' q't'm'c'p'f' 'y' q't'm'i'k'p' 'c'v'k'c'u' 'q't' 'q'p' 't'q'q'h'u' 'v'q' 'k'p'u'c'm'i'g'r'g'e'v't'c'e'n' 'g'p'x'k'q'p'o' g'p'v'c'n' 'u'c'h'g'v'f' 'c'r'e't'o' 'c'p'f' 'u'k'o' k'r'e't' 'u'f' 'u'g'o' u'0C'ee'q't'f' k'p'i' n'f' ' 'y' j' g'P C J D'j' cu'w'c'v'g'f' 'y' c'v' 't'g'u'k'f' g'p'v'k'i'r' 'e'q'p'u't' w'e'v'k'p' 'g'o' r' n'q'f' g't'u' 'u'j' q'w'f' 'p'q'v'd'g't'g's' w'k't'g'f' 'v'q' 'o' c'n'g' 'e'c'ug' /d'f' /e'c'ug'f' g'v'g't'o' k'p'c'v'k'p'u' 'y' j' t'q'w'i' j' 'h'c'm'i' 'r' t'q'v'g'v'k'p' 'r' n'p'u' 'y' j' c'v' 'e'q'o' r' n'f' 'y' j' k'y' '3; 480724' \*m' 'y' c'v'k'k'u'c'r'r' t'q'r' t'k'v'g' 'v'q' 'w'ug' c'n'g't'p'c'v'k'g' 'h'c'm'i'r' t'q'v'g'v'k'p' 'o' g'c'u'w't'g'u'k'p' 'y' j' q'u'g' 'u'k'w'c'v'k'p'u'0'k'p' 'u'j' q't'v' 'y' j' g'P CDD' 'u'c'v'g'u' 'y' j' c'v'c'p' 'g'o' r' n'q'f' g't' 'u'j' q'w'f' 'u'k'o' r' n'f' 'd'g' 'c'd'ng' 'v'q' 'k'o' r' n'g'o' g'p'v'j' g'c'n'g't'p'c'v'k'g' 'o' g'c'u'w't'g'u'y' k'y' q'w'r'f' t'q'f' w'e'k'p'i' 'c' 'y' t'k'w'p' 'r' n'p' 'q't' 'q'v'j' g't'f' 'q'ew'o' g'p'c'v'k'p'0'

Rctci tcr j u'3; 480723\*d-#32+cpf \*d-#33+cf f tguu'hcnlr tqvewqp'hqt"go r m{ ggu'r gthqto kpi 'tqqh'kpi 'y qtm'  
qp'my /'unqr g'tqqhu'cpf 'hqt"go r m{ ggu'qp'unvgr /unqr g'tqqhu.'tgr gev xgn(0Rctci tcr j \*d-#32+ur gekh'ecm( "  
cmqy u'go r m{ gtu'q'wug'cngr pcv xg'hcnlr tqvewqp'o gcuwtgu'hqt"go r m{ ggu'qp'my /unqr g'tqqhu'y kj qw'j cxkpi "q"  
f g xgnr 'c'hcnlr tqvewqp'r np0Rctci tcr j '3; 480723\*d-#33+cf f tguu'hcnlr tqvewqp'hqt"go r m{ ggu'qp'unvgr /unqr g'tqqhu'  
unvgr 'unqr g'tqqh'kpi 'y qtm'gzgr vlp'tguk'gpv'cn'eqpwtvewqp.'y j gtg'3; 480723\*d-#33+cf f tguu'hcnlr tqvewqp'hqt"go r m{ ggu'qp'  
y j g'go r m{ gt'y j q'j cu'go r m{ ggu'r gthqto kpi 'm'y "qt'unvgr 'unqr g'tqqh'y qtm'qp'c'St'guk'gpeg\$'v'j cxg'y g'qr vqp'qh"  
f go qpwtvewqp'v'j cvk'ku'cr r tqr tlcw'go r m{ ggu'qp'unvgr /unqr g'tqqhu'y kj qw'j cxkpi "q"

Vj g"PcvkpcnTqqhpi "Eqptcevqtu"Cuuqekvqp"\*PTEC+cpf "vj g"PCJ D"j cxg"tgs wugvf "vj cv"QUI C"tgeqpukf gt" j qy "vj g"ucpf ctf "y qwf "dg"cr r kcf "q"tgulf gpvcr"eqput wevqp"tqqhpi "cevxkkgu"vcnki "kpq"ceeqwpr"tqgevkxg" o gcwtgu"y j lej ."y j krg"pqv"tgeqi pk gf "d{"Uwdr ctv"O 0"ctg"eqo o qpr{"wugf "kp"vj g"tgulf gpvcr"eqput wevqp" kpf wut {0}

QUJ C"campqy rñf i gu'j cv'yj g'cdqxg/f'kueuugf"eqpegtpu'o gtk/hwtj gt"eqpukf gtcvkqp"d{"yj g'Ci gpe{0Vj gtghqtg." QUJ C"j cu'f gvgto lpgf "yj cv'k/ku'cr r tqr tkcvg"q'pklcvg/hwtj gt'r tqeggf lpi u'tgi ctf lpi "Uwdr ctvO "uq'j cv'yj g" Ci gpe{ "ecp'tggxcnvcg'y j cv'eqpukwgu'cf gs wcvg'hcnlr tqgcvkp"ht'xctkqu'eqputwcvkp"qr gtcvkqpu0QUJ C"ku" o qxlpi "gzzr gf kklqwnl "q'f gxgnr "cp'P RTO 0Kp'r ctvewrt."hwtj gt'r tqeggf lpi u'y knlr tqxkf g'cp'qr r qtwpkx "q" w f cvg"QUJ C"u'lphtqo cvkp'tgi ctf lpi "yj g'hcnlj cl ctf u'q'y j lej 'tgukf gpvcnleqputwcvkp'y qtingtu'ctg"gzr qugf 0' Vj ku'kp'wtp."y knl'gpcdrp'yj g'Ci gpe{ "q'gxcnvcg'yj g'cnegtpcvkg'o gvj qf u'cpf 'r tqegf wtu'wui i guvgf'd{"tqqhkp " eqputcevqtu'ht'tgukf gpvcnltqqhkp "y qtn0F wtkpi "yj ku'r gtkqf ."yj g'r qnleku'ugv'htj yj "dgmj "y knl'dg'kp'ghhge0Vq"vug" cnegtpcvkg'o gcuwtgu'kp'ekewo ucpegu'qj gt'yj cp'yj qug'cf f tguvgf'd{"yj g'hqmqj lpi ."yj g'vgto "u'qh'3; 480'23'm'o wuv' dg'o gv'cpf "c'y tkwep'hcnlr tqgcvkp'r ncp'o wuv'dg'f gxgnr gf 0'



## FALL PROTECTION

**Interim Policy for Residential Construction.**"ᑭᐅcf f kᓴqᐅ"vᓴ"j g'hcm'r tqvgevkᐅ'o gcuwt gu'ugv'wᐅf gt"

3; 8072nd\*35+<sup>h</sup>qt'tgukf gpvkn'eqput wvkwq. 'ko r ngo gpvkwq'qh'yj g'o gcuwtgu'f guetkdgf 'kp'Cr r gpf lz 'G'vq'Uwdr ctv' O 'hqt'kpucnkpi 'hqqat'lqknu'cpf 'uj gcvj kpi . 'gtgevkpi 'gzvgtkqt'y cmu. 'ugwkpi 'cpf 'dtceki 'tqqh'twuugu'cpf 'tchgtu. " cpf'kpucnkpi 'tqqh'uj gcvj kpi . 'y kn'dg'eqpukf gtgf 'vq'eqo r n' 'y kj 'Uwdr ctv'O 'gxgp'y qwi j 'c'hnrl tqgvekwq'r ncp" yj cv'eqo r ngu'y kj "3; 480724\*<sup>m</sup>ku'pq'kp'r nreg0k'cf f kkwq. "go r nq{gtu'ctg'cmqy gf 'vq'ko r ngo gpv'cnegtpcvkg" o gcuwtgu'hqt'go r nq{ggu'gzz qugf 'vq'hn'f c| ctf u'y j kg'y qtnkpi 'qp'eqpetgvg'cpf 'dmqenlhqwpf cvkwq'y cmu'cpf " tgrv'gf hqto y qtn'cpf 'kp'cwk'cpf 'tqqh'ctgeu. 'y kj qw'c'hnrl tqgvekwq'r ncp'yj cv'eqo r ngu'y kj "3; 480724\*<sup>m</sup>. 'cu' hmqy u<

FEÄHqwpf cvkqp'Y cmi<Vj g'eqpvtcevt'uj cmi'cng'vj g'hqmjy kpi 'uwr u'q'r tqgevy qtngtu'y j q'ctg'gzz qugf 'q'hcm'  
j cl ctf u'y j kg'y qtnkpi 'ltqo 'vj g'vqr 'uwthceg'qh'dmcmhqwpg cvkqp'y cmi'cpf 'eqpetgg'hqwpg cvkqp'y cmi'cpf "  
tgrvgf'hqto y qtnk'

c(ÁQpn ("tclpgf'y qtmgtu'uj cml'dg'cmqy gf "q'y qtm'qp'yj g'q'r "qh'yj g'hqwpf cwlqp'y cml'hto y qtm'c'pf "qpn ("cu  
pgeguuct ("q'eqo r ngv'yj g'eqpwt wwlqp'qh'yj g'y cml'

d0ÁCmihqto y qtmñuj cm'dg"cf gs wcvgn{ 'uwr r qtvgf "dghqtg"cp{ 'y qtngt "ecp"y qtmñqp"vqr "qh'y g'hqto y qtn0

eÓÁY j gp"cf xgtug'y gcvj gt \*uwej "cu"j ki j 'y kpf u."tclp."upqy ."qt"unggw"ku"etgcwpi "c"j c| ctf qwu"eqpf kkpq."

qr gtcwkpau"uj cm'dg"uwur gpf gf "wvkd"uwej "ko g"cu"j g"j c| ctf qwu"eqpf kkpq"pq"nupi gt "gzkuw"wpngui"uchg"

hqwkpí "ecp"dg"gpwuf gf "hqt"y qtngtu"qp"vqr "qh"vj g"hwpf cwkap"y cmhato y qtn0'

f(ÁO cvgtkcn"cpf "gs wkr o gpv'hqt "y g'y qtn'dgkpi "r gthqto gf "uj cni'dg"eqpxgpkcpw("mqcvgf "q"y g'y qtngtu"qp"  
y g"qvr "qh'y g'hqwpf cvqplhqt "y qtn0'

g0ÁO cvgtkcn"cpf "qj gt"qdlgeu'y j kē eqwf 'r qug'ko r crgo gpv] c| ctf u'uj cm'dg'ngr V'qww'qh'y g'ctgc'dgmry 'y j gtg'"  
y qtngtu'ctg'y qtnkpi "qt'y g{ 'uj cm'dg'r tqr gtn' 'i wctf gf 0'

40Á Cwleu'cpf "Tqqhu"Vj g'eqpvcevt'uj cm'cng'yj g'hqmy kpi 'uwr u'q'r tqvgevy qtngtu'kpuwckpi 'ft{y cm'kpuwckqp."  
J XCE'u'ugo u.'grgetlecluf'ugo u.'kpenwf kpi 'crcto u.'vgrgr j qpg'hpgu.'cpf 'ecdng'VX+.'r nwo dki . 'cpf 'ectr gpt{.'  
y j q'ctg'gzz qugf 'q hmlj cl ctf u'y j krg'y qtnkpi 'kp'cwleu'qt'qp'tqqhu'P qvg<yj g'cr r'lecvkqp'qh'uj kpi ngu.'krg.'cpf "  
qyj gt'y cvgr tqghkpi 'o cvgtkcn'ku'eqxgtgf 'kp'r ctci ter j 'Kdgrmy +'

c0" Qpn( "tclpgf'y qtngtu'uj cm'dg"cmqy gf"v'y qtnlk'cwleu'cpf"qp'tqqhu'cpf"qpn( "cu'pgeguuct{ "v'eqo r ngv"  
y'g'eqputwekqp'qh'y'g'u{ ugo "dgoi "kpu'cmf'0

d0Á O cvgtkcn"cpf "gs wkr o gpvhtq"vj g'y qtnlvq"dg'r gthqto gf "uj cm'dg"tqecvgf "eqpxgpkpva( "enug"vq"vj g"  
y qtngtu0'

e0Á O c v t k n " c p f " q v g t " q d l g e u " y j k e j " e q w f " r q u g " k o r c n g o g p v " j c l c t f u " u j c m ' d g " n g g r " q w " q h " v j g " c t g c " d g n y " y j g t g " y q t n g t u " c t g " y q t n k o i " q t " v j g { " u j c m ' d g " r t q r g t n " i w c t f g f 0'

f(Á Y j kg'cwk'qt'tqgh'y qtnlku'p'r tqi tguu.'y qtngtu'pqv'kpxqk'gf'k'p'uwej 'y qtnluj cm'pqv'ucpf'qt'y cm'idgny " qt'cf lcegpv'q'cp{'qr gpkoi u'l'k'vj g'egkpoi 'y j g'g'vj g{'eqwf'dg'utwem'id{'hmkoi'qdlgeu0'

g0Á Y j gp'cf xgtug'y gcvj gt "uwej 'cu'j ki j 'y kpf u' tclp.'upqy . 'qt'unggw'ku'etgcwpi 'c'j c| ctf qwu'eqpf kklqp." qr gtcwkpau'uj cm'dg'uwur gpf gf 'wp'kl'uwej 'ko g'cu'j g'j c| ctf qwu'eqpf kklqp'pq'iqpi gt 'gzkuu'wprguu'uchg'hqqwpi " ecp'dg'gpuw'gf'hq't'y qtngtu'qp'qr'qh'j g'tqqhf'



## FALL PROTECTION

**Interim Policy for Residential Construction Roofing Work.** "Ƨ'cf f kƧp'v'j' g'hcmr tqvƧp'o gcuwtgu'ugv' wƧf gt'3; 48072nd+\*r2+'cpf '\*33-'hqt'tqƧhƧi 'y qtm'Ƨo r ngo gƧvƧp'qh'j' g'o gcuwtgu'f guetkdgf'dgnry 'y km'dg" eqpuk'gtgf'v'q'eqo r n' 'y kj 'Uwdr ctvO 'f wtƧi 'tƧuk gƧvƧr'eqpwtwƧp'tqƧhƧi 'y qtm'Ƨpwn'Ƨi 'tqƧhƧi 'tgo qxcn" tgr ckt."cpf'pgy 'tqƧhƧi 'ƧpucmƧp+'Y j gtg'j' g'tqƧh'wqr g'ku': 'Ƨ'34'qt'ngu'cpf'j' g'gxcg'v'ny gt'gxgrhcmf'kncpeg" ku'47'hggv'qt'nguO'

30ÁGo r m{gtu'y j q'f'q'pqv"wg"eqpxgpwqpcn'hcml'r tqvewqp"u{ u'go u'f'wtpi "tqql'pi . 'y qtnluj cm'veng"y g'hqmqy lpi "  
u'gr u'k'

c(ÁQpn[ 'y qtngru'y j q'j c'xg'dggp'tclpgf 'v'g'r tqhlekpvlp 'v'j g'cngrpcw'g'o g'v qf u'qh'hm'r tqvge'vqp 'wugf 'v'q" o k'p'o k' g'hm'j c' ctf u'uj cm'dg'cm'y gf 'qp'v'v'j g'tqqlh'p'cf f'k'qp. 'go r m'q' gtu'uj cm'j c'xg'gcej 'ch'ge'v'g' " go r m'q' g'g'tclpgf 'v'g'puw'g'v'j g'f 'j' c'xg'ur gek'ke'cy ctgpguu'qh'v'j g'hm'j c' ctf u'cuuqek'v'g'f 'y k'j 'y qtn'qp' " tqqlu'y k'j 'tcng'gf i gu'v'j g'v'gto 'Stcng'gf i gu\$'o gcpu'tqqh'gf i gu'v'j cv'ctg'k'per'k'pgf 'uwej 'cu'qp'v'j g'i c'dng'gpf " qh'c'dw'k'f k'p'i -0'

d(ÁVj g'go r m{ gt'uj cm'j cxg'tqql'wltcegu'lpur gevgf'hqt'unkr r lpi 'j c| ctf u'cpf 'uj cm'gkj gt'gno kpcvg'cp{ 'uwej "  
j c| ctf u'qt'cm'g'ghcevg'o gcuwtgu'vq'j cxg'y qtnqtu'cxqlf 'vj go ="

e0ÁVj g"go r m { gt"uj cmj cxg'y qtngtu'y gct"cr r tqr tlcw'hqqw gct"vq'tgf weg"unk r kpi "r qvwpvcn="

fÓÁy j gp'cf xgtug'y gcvj gt<sup>ts</sup>uwej 'cu'j k j 'y kpf u.'tclp.'upqy . 'qt'unggv<sup>ts</sup>'ku'etgcvkpi 'c'j c| ctf qwu'eqpf kkp." tqqhpi 'qr gtcvkpu'uj cm'dg'uwr gpf gf 'wp<sup>ts</sup>ku'weij 'ko g'cu'j g'j c| ctf qwu'eqpf kkp"pq'mpi gt'gzkuu="

gOÁVj g"go r m{ gt'lj cmj cxg"cp{ 'f co ci gf 'r qt vqpu'qh'vj g'tqqh'f gem'tgr ck'gf "cu'uqqp'cu""r tcevecdrg."cpf "cp{ " j qrgu"kwpmf kpi "unf rki j v'qr gpkpi u+qt"q'vj gt'ctgcu'y j gtg"go r m{ ggu'y qwf "pq'vj cxg'uchg'hq'kpi 'lj cm'dg" eqxgtgf "qt'uwttqwpf gf 'd{ 'i wctf tcku'vj cv'eqo r n' 'y kj 'vj g'tgs wkt go gpw'qh'3; 480724="

HOÁ Gzegr v'cu'pqwǵ. "go r nǵ{ ggu'uj cmi'dg'r tqǵewǵ 'd{ "c'uchǵv' 'o qpkqtłpi 'u' uǵo 'y j kǵ 'eqo r nǵu'y kǵ 'y g' r tqxłukqu'qłh'3; 480724. 'qt' y g{ 'uj cmi'dg'r tqǵewǵ 'd{ 'tqǵłłpi 'u'k' g'ı wctf u'ıt'qǵł'lcemı'qt'gs wǵxǵrǵpı' uwr r qtu'y kǵ 'o kło wo '4\$Z'8\$'pqo kpcıłı rcpmı+ı'pıucnǵf 'k'p'ceeqtf cpeg'y kǵ 'r ctcı tcr j '4'dǵııy 0P qǵw' f włłpi 'tqǵłłpi 'ı'pıucmı'kqı. 'y g'go r nǵ{ gt' b c{ 'wıg'c'uchǵv' 'o qpkqtłpi 'u' uǵo 'qpn' 'qp'tqǵıı'y j gtg'y g' uıııı g'ıı'6 k'p'34'qt'ıııı'0qt'y j gtg'ııı'qt' b gıııı'tqǵłłpi 'ıı'dǵłpi 'ı'pıucnǵf. 'y g'ııııı g'ıı'ıı' k'p'34'qt'ııııı'

i ǃǃǃ m f f g t u q t " u e c h q f u c t g " w u g f . " y j g { " u j c m l d g " g t g e v g f " c p f " o c k p c k p g f " k p " c e e q t f c p e g " y k j " y j g " t g s w k t g o g p w u q h U w d r c t w u Z " c p f " N " q h Q U I C u " e q p u t w e k p " u c p f c t f u o k p " c f f k k p . " g o r m { g g u u j c m l d g " w c k p g f " k p " c e e q t f c p e g " y k j " y j g " t g s w k t g o g p w u q h U w d r c t w u Z " ( " " N O ' )

j 0AGo r m{ gtu'uj cm'pq'vmqy 'y qtngtu'v'cuegpf "qt'f'guegpf 'v'j g'tqqh'u'umr g'y kj kp'8'hggv'qh'y g'tcng"  
gfi g'gzeqr v'y j gtg'uwej 'c'iko k'qp'o qxgo gpv'y qwf 'r txxgpv'v'j g'r gthqto cpeg'qh'y qtn0'

30' Uwr rŋgu'cpf'o cvgtkŋu'uj cm'pqv'dg'uvqtgf'y kj kp'8'hggv'qh'ij g'tcng'gf i g.'qt'5'hggv'y j gtg'wrg'tqqh'  
uʃ ugo u'tcgt'dgkpi 'kpucmf 0'

10' Vj g'tgcg'dgrny 'vj g'gxcgu'cpf 'tcngu'uj cm'dg'ngr v'engct'qh'o cvgtkcm'cpf 'qvj gt'qdlgeu'y j kej 'eqwaf "  
r qug'lo r cngo gpv'qt'qvj gt'] c| ctf u'qt'vj g'f 'uj cm'dg'r tqr gtn' 'i wctf gf 0'



# FALL PROTECTION

40Á Go r m{ gtu'y j q'wug'tqqh'p' 'urkf g'i wctf u'cu'hcml'r tqvge'v'p'f wtk'p' 'y' g'r gthqto cpeg'qh'tqqh'p' 'y' qtm'uj cml'v'cng' 'y' g'h'm'uy p'p' 'u'gr u'lp'cf f'k'k'p' 'v' 'y' qug'lp' 'U'ge'v'k'p' '30'cd'q'x'g'<

c0Á Qp'tqqh'u'y kj 'un'r gu'ngu'y cp'qt'gs wcn'v'q'8'lp'34.'tqqh'p' 'urkf g'i wctf u'uj cml'dg'lp'ucm'gf 'eqp'v'p'w'w'w' 'cm'p'p' 'y' g'g'cxg'0'V'q'ceeqo r'nk'j 'y' ku.'pqv'o qtg'y' cp'y' tgg'\*5+'t'q'y u'q'h'tqqh'p' '""'o c'v'g't'cn'uj cml'dg'cr r'ngf 'h'k'u'0'V'j gp.'" y' g'tqqh'l'cemu'\*qt'gs w'k'c'ng'p'v'w'r r'q't'u'+l'j cml'dg'lp'ucm'gf 'w'uk'p' 'p'ck'u'p'p'p' 'gp'q'w'j 'v'q'j' q'rf 'y' g'urkf g'i wctf 'lp' r'nc'eg'uj q'w'f 'cp'go r' m{ g'g'urkf g'f'q'y p'y' g'tqqh'c'p'f 'eqp'w'ce'v'y' g'urkf g'i wctf 0'V'j g'c'p'p' ng'q'h'y' g'urkf g'i wctf " u'f' u'go 'uj cml'dg'cr r'tq'z'k'o c'v'gn' ", 2'f' gi t'gg'u' 'r' n'w'q't'o 'lp'w'u'32'f' gi t'gg'u'+'v'q' 'y' g'tqqh'0'

d0Á Qp'tqqh'u'y kj 'un'r gu'i tgc'v'gt'y' cp'8'lp'34'w'r 'v'q'c'p'f 'lp'cn'f'lp'p' ': 'lp'34.'g'cxg'urkf g'i wctf u'uj cml'dg'lp'ucm'gf 'c'p'f' 'c'f'f'k'k'p'c'n'urkf g'i wctf u'uj cml'dg'lp'ucm'gf 'd'g'm'y' 'y' g'y' q't'm'ic't'g'c'v'lp'v'g't'x'c'm'p'q'v'v'q'g'z'eg'g'f 'g'k'j' v'h'g'g'0'V'q'lp'ucm' 'y' g'urkf g'i wctf u.'y' g'go r' m{ g'g.'y' j' k'g'w'c'p'f'lp'p' 'q'p'y' g'r' r'c'p'm'id'g'm'y' . 'uj c'm'l'ug'ew't'g'y' g'tqqh'l'cemu'y' kj 'p'ck'u'c'p'f' " y' gp'lp'ucm'y' g'r' r'c'p'm'u'0'V'j g'go r' m{ g'g'y' gp'ec'p'er'ko d'w'r 'v'q'y' g'r' r'c'p'm'ic'p'f' 'eqp'v'p'w'g'v'q'lp'ucm'y' g'tqqh'0' C'm'j' q'w'j 'y' g'g'cxg'urkf g'i wctf u'o w'w'v't'w'p'y' g'g'p'v'k'g'g'cxg'u'p'g'p'p' y' . 'c'p'f' "o w'w'v'd'g'c'v'cr r'tq'z'k'o c'v'gn' 'c'", 2'f' gi t'gg'u' c'p'p' ng' 'r' n'w'q't'o 'lp'w'u'32'f' gi t'gg'u'+'v'q' 'y' g'tqqh'j' k'j' g't'urkf g'i wctf u'p'g'g'f' 'q'p'p' "d'g'p'p'p' 'gp'q'w'j 'v'q'r't'q'x'k'f'g' r'tq'v'ge'v'k'p'p' d'g'm'y' 'y' g'c't'g'c'q'h'y' g'tqqh'y' j' g't'g'y' q't'm'l'ku'd'g'k'p'p' 'r' g't'h'q'to g'f' 'c'p'f' "o c'f' "d'g'o q't'g'g'x'g'n'k'h'f'g'uk'f'g'f'0' Q'p'eg'y' g'tqqh'ku'lp'ucm'gf 'v'q'y' g't'k'f' i' g.'y' g'go r' m{ g'g'y' k'n'le'ko d'f'q'y p'v'q'y' g'm'y' g't' r'c'p'm'ic'p'f' 't'go q'x'g'y' g' r'c'p'm'u'c'p'f' 'tqqh'l'cemu'ht'q'o 'y' g'j' k'j' g't'g'x'g'n'0'V'j g'go r' m{ g'g'uj c'm'eq'p'v'p'w'g'y' ku'r' t'q'eg'u'f'q'y p'y' g'tqqh'v'p'v'k'ic'm' r'c'p'm'u'c'p'f' 'tqqh'l'cemu'c't'g't'go q'x'g'f'0'Q'p'n' 'y' j' gp'y' g'l'q'd'ku'e'q'o r'ng'v'f' 'ec'p'y' g't'go c'k'p'k'p'p' 'g'cxg'r' r'c'p'm'u'c'p'f' 'tqqh' l'cemu'dg't'go q'x'g'f'0'

e0Á Qp'tqqh'u'y kj 'un'r gu'i tgc'v'gt'y' cp': 'lp'34'c'p'f' 'q'p'tqqh'u'y' kj 'un'r gu'i tgc'v'gt'y' cp'6'lp'34'y' j' g't'g'y' g'g'cxg'v'q' n'y' g't'g'x'g'n'hc'm'f' k'w'c'p'eg'ku'o q't'g'y' cp'47'h'g'g'v.'go r' m{ g'tu'uj c'm'j' c'x'g'y' q't'ng'tu'w'ug'q'p'g'q'h'y' g'eq'p'x'g'p'v'k'p'c'n' o'g'y' q'f' u'q'h'hc'm'l'r tqvge'v'k'p'p' 'k'g'0'uch'g'v'f' 'p'g'w'u.'i wctf t'ck'u.'q't' r' g'tu'q'p'c'n'hc'm'ic't't'g'u'v'u'f' u'go u+: 'cu'r' t'q'x'k'f' g'f' 'lp'3; 4807240'

**Citations:** H'k'w'g'v'q'r' t'q'x'k'f' g'hc'm'l'r tqvge'v'k'p'p' 'lp'ceeq't'f' c'p'eg'y' kj 'c'p'f' 'r'c't'v'q'h'y' ku'f' k'g'ev'k'x'g'uj cml'dg'ek'g'f' 'cu'c' " x'k'q'v'k'p'p'q'h'3; 480723\*d+\*35+0'

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## SCOPE AND APPLICATION

Vj g'QUI C'twgu'cr r n' 'q'cm'uckty c { u'cpf 'rcf f gtu'wugf 'kp'eqputwekqp.'cngtcvkqp.'tgr ckt 'kpenw'kpi 'r ckp'kpi 'cpf " f geqtcvkpi + 'cpf 'f go qrkakp'qh'y qtmukgu'eqxgtgf 'd { 'QUI C'u'eqputwekqp'uchgv' 'co kf 'j gcmj 'ucpf ctf u0Vj g { 'cnuq" ur gehf 'y j gp'uckty c { u'cpf 'rcf f gtu'o wu'dg'r tqxkf gf 0T wgu'ht'rcf f gtu'wugf 'qp'qt'y kj uechqrf u'ctg'eqpckpgf 'kp" Uwdr ctvN'/'Uechqrf u'4; "Code of Federal Regulations 3; 48(673-0)

## GENERAL REQUIREMENTS

C'uckty c { 'qt'rcf f gt'o wu'dg'r tqxkf gf 'cv'cm'y qtngt'r qkp'u'qh'ceeguu'y j gtg'yj gtg'ku'c'dt gcm'kp'grgxcvkqp'qh'3; " kpej gu'qt'o qtg'and pq'tco r .twp y c { .go dcpno gpv'qt'r gtuqppgnj qku'ku'r tqxkf gf 0'

Y j gp'yj gtg'ku'qpn' 'qpg'r qkp'u'qh'ceeguu'dgy ggp'rgxgn. 'k'o wu'dg'r ngr v'engct'q'r gto k'htgg'r cuuci g'd { 'y qtngtu0Kt' htgg'r cuuci g'dgego gu'tgutkvgf .c'ugeqpf 'r qkp'u'qh'ceeguu'o wu'dg'r tqxkf gf 'cpf 'wugf 0'

Y j gp'yj gtg'ctg'o qtg'yj cp'y q'r qkp'u'qh'ceeguu'dgy ggp'rgxgn. 'cv'hcuv'qpg'r qkp'u'qh'ceeguu'o wu'dg'r ngr v'engct0' C'm'uckty c { 'cpf 'rcf f gt'hcml'rqv'ekqp'u' ugo u'tgs wktgf 'd { 'y gug'twgu'o wu'dg'r kpuvcngf 'cpf 'cmf'wkgu'tgs wktgf 'd { " yj g'uckty c { 'cpf 'rcf f gt'twgu'o wu'dg'r gthqto gf "before go r m { ggu'dgi kp'y qtm'yj cv'tgs wktgu'yj go "q'wug'uckty c { u'qt" rcf f gtu'cpf 'y gk'tgur gev'xg'hcml'rqv'ekqp'u' ugo u0'

## LADDERS

Vj g'hqmy kpi 'i gpgtcr'tgs wktgo gpv'u'cr r n' 'q'cm'rcf f gtu.'kpenw'kpi 'lqd/o cf g'rcf f gtu-

30A C'f qwdrg/ergcv'g'rcf f gt'qt'y q'qt'o qtg'rcf f gtu'o wu'dg'r tqxkf gf 'y j gp'rcf f gtu'ctg'yj g'qpn' 'y c { u'q'gpvgt'qt'gzk' c'y qtm'ctgc'ht'47'qt'o qtg'go r m { ggu.'or y j gp'c'rcf f gt'ugt'xgu'uko wncpgqu'wy q/y c { 'tchle0'

40ANcf f gt'twpi u.'ergcu.'cpf 'u'gr u'o wu'dg'r ctcngn'rgxgn'cpf 'vphqto n' 'ur cegf 'y j gp'yj g'rcf f gt'ku'kp'r qukskqp'" hqt'wug0'

50ATwpi u.'ergcu.'cpf 'u'gr u'qh'r qtwdrg'cpf 'h'zgf 'rcf f gtu'gze'gr v'cu'r tqxkf gf 'dgm'y +o wu'pqv'dg'ur cegf 'hguu' yj cp'32'kpej gu'cr ctv.'pqt'o qtg'yj cp'36'kpej gu'cr ctv.'cm'pi 'y j g'rcf f gt'u'ukf g'tcku0'

60ATwpi u.'ergcu.'cpf 'u'gr u'qh'u'gr 'u'qqu'o wu'pqv'dg'rguu'yj cp': 'kpej gu'cr ctv.'pqt'o qtg'yj cp'34'kpej gu'cr ctv.' dgy ggp'egpvt'rkpgu'qh'yj g'twpi u.'ergcu.'cpf 'u'gr u0'

70ATwpi u.'ergcu.'cpf 'u'gr u'cv'yj g'dcug'ugevkqp'qh'gz'v'pukqp'v'gu'rg'rcf f gtu'o wu'pqv'dg'rguu'yj cp': "kpej gu'pqt" o qtg'yj cp'3: "kpej gu'cr ctv.'dgy ggp'egpvt'rkpgu'qh'yj g'twpi u.'ergcu.'cpf 'u'gr u0'Vj g'twpi 'ur cekpi 'qp'yj g' gz'v'pukqp'ugevkqp'o wu'pqv'dg'rguu'yj cp'8'kpej gu'pqt'o qtg'yj cp'34'kpej gu0'

80ANcf f gtu'o wu'pqv'dg'v'kf 'qt'hcuv'pgf 'qi g'yj gt'q'et'gcv'ngpi gt'ugevkpu'w'rguu'yj g { 'ctg'ur gekh'ecm' 'f guk'pgf 'hqt' uvej 'wug0'

90 C o g'cn'ur tgc'f gt'qt'm'ekpi 'f g'xleg'o wu'dg'r tqxkf gf 'qp'gcej 'u'gr rcf f gt'q'j qrf 'y j g'htqp'v'cpf 'dcem'ugevkpu'kp'cp" q'rp'r qukskqp'y j gp'yj g'rcf f gt'ku'dgkpi 'wugf 0'

: 0A Y j gp'ur nekpi 'ukf g'tcku.'y j g'tguw'kpi 'ukf g'tcku'o wu'dg'gs w'x'crgpv'kp'ut'gpi yj 'q'c'qpg/r kgeg'ukf g'tcku'o cf g'qh' yj g'uco g'o cvgt'kcr0'

; 0A Vy q'qt'o qtg'ugr ctcv'rcf f gtu'wugf 'q'tgcej 'cp'grgxcv'g'y qtm'ctgc'o wu'dg'qh'ugv'y kj 'c'r r'v'htqto 'qt'rcpf kpi " dgy ggp'yj g'rcf f gtu.'gze'gr v'y j gp'r qtwdrg'rcf f gtu'ctg'wugf 'q'i ckp'ceeguu'q'h'zgf 'rcf f gtu0'

320ANcf f gt'eqo r qpgpu'o wu'dg'uw'hc'egf 'q'r t'gxgpv'kplwt { 'htqo 'r w'pewt'gu'qt'rc'egt'vkpu.'cpf 'r t'gxgpv'upci i kpi 'qh'em'y kpi 0'

330Y qqf 'rcf f gtu'o wu'pqv'dg'eqcv'g'y kj 'cp { 'qr cs w'g'eqxgtkpi .gze'gr v'ht'kf gp'v'k'ecvkqp'qt'y ctpkpi 'rcd'gnu'y j lej "" o c { 'dg'r r'ceg'qpn' 'qp'qpg'rc'eg'qh'c'ukf g'tcku0'

"

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# ELECTRICAL STANDARDS FOR CONSTRUCTION

## Electrical Safety Program

### Reference Standard

Occupational Safety and Health Administration:

- 29 CFR 1910.332 – Training
- 29 CFR 1910.333 – Selection and Use of Work Practices

### Purpose

This program establishes safe work practices to be used to prevent electrical shock or other injuries resulting from either direct or indirect contacts, when work is performed near or on equipment or circuits which are or may be energized.

### Scope

This procedure applies to all company employees, contractors and vendors performing work on company property, and all other individuals who are visiting or have business with our company.

### Responsibilities

- Management and supervisors are responsible for enforcement of this program;
- Management will ensure that required training is conducted; and
- Employees, Contractors and vendors are required to comply with all procedures outlined in this policy.

### Definitions

**De-energized:** Free from any electrical connection to a source of potential difference and from electrical charge.

**Energized:** Electrically connected to a source of potential difference.

**Insulated:** Separated from other conducting surfaces by a dielectric (including air space) offering a high resistance to the passage of current.

**Qualified person:** One who has received training in and has demonstrated skills and knowledge in the construction and operation of electric equipment and installations and the hazards involved.

**Ground Fault Circuit Interrupter (GFCI):** A device that shuts off an electric power circuit when it detects the current flowing along an unintended path, such as through water or a person.

### Procedure

#### Generators and Power Tools

All generators will be equipped with Ground Fault Circuit Interrupters (GFCI) and all power tools and equipment will be connected to the GFCI's. All electrical cords will be inspected prior to use, will be fitted with a ground plug and the cord and plug will be in good repair.

#### Inspection

Power tools and extension cords will be inspected prior to each use to ensure that they are in safe operating condition.

#### De-energized parts

Live parts to which an employee may be exposed must be de-energized before the employee works on or near them, unless the employer can demonstrate that de-energizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations.



# ELECTRICAL STANDARDS FOR CONSTRUCTION

Live parts that operate at less than 50 volts to ground need not be de-energized if there will be no increased exposure to electrical burns or to explosion due to electric arcs.

## **Energized parts**

If the exposed live parts are not de-energized (for reasons of increased or additional hazards or infeasibility), other safety-related work practices must be used to protect employees who may be exposed to the electrical hazards involved. Such work practices must protect employees against contact with energized circuit parts directly with any part of their body or indirectly through some other conductive object. The work practices that are used must be suitable for the conditions under which the work is to be performed and for the voltage level of the exposed electric conductors or circuit parts.

## **Working on or near exposed de-energized parts**

This applies to work on exposed de-energized parts or near enough to them to expose the employee to any electrical hazard they present. Conductors and parts of electric equipment that have been de-energized but have not been locked out or tagged must be treated as energized parts.

**Lockout and tagging:** While any employee is exposed to contact with parts of fixed electric equipment or circuits which have been de-energized, the circuits energizing the parts must be locked out or tagged or both in accordance with the requirements below.

## **De-energizing equipment**

Safe procedures for de-energizing circuits and equipment must be determined before circuits or equipment are de-energized.

- The circuits and equipment to be worked on must be disconnected from all electric energy sources. Control circuit devices, such as push buttons, selector switches and interlocks, may not be used as the sole means for de-energizing circuits or equipment. Interlocks for electric equipment may not be used as a substitute for lockout and tagging procedures;
- Stored electric energy which might endanger personnel must be released. Capacitors must be discharged and high capacitance elements must be short-circuited and grounded, if the stored electric energy might endanger personnel.  
*Note: If the capacitors or associated equipment are handled in meeting this requirement, they must be treated as energized;*
- Stored non-electrical energy in devices that could reenergize electric circuit parts must be blocked or relieved to the extent that the circuit parts could not be accidentally energized by the device;
- Application of locks and tags:
  - A lock and a tag must be placed on each disconnecting means used to de-energize circuits and equipment on which work is to be performed. The lock must be attached so as to prevent persons from operating the disconnecting means unless they resort to undue force or the use of tools;
  - Each tag must contain a statement prohibiting unauthorized operation of the disconnecting means and removal of the tag;
  - If a lock cannot be applied, or if the employer can demonstrate that tagging procedures will provide a level of safety equivalent to that obtained by the use of a lock, a tag may be used without a lock;  
If a tag is used without a lock it must be supplemented by at least one additional safety measure that provides a level of safety equivalent to that obtained by use of a lock. Examples of additional safety measures include the removal of an isolating circuit element, blocking of a controlling switch, or opening of an extra disconnecting device; and
  - A lock may be placed without a tag only under the following conditions:
    - Only one circuit or piece of equipment is de-energized;
    - The lockout period does not extend beyond the work shift; and
    - Employees exposed to the hazards associated with reenergizing the circuit or equipment are familiar with this procedure.



# ELECTRICAL STANDARDS FOR CONSTRUCTION

The requirements of this paragraph must be met before any circuits or equipment can be considered and worked as de-energized.

A qualified person must operate the equipment operating controls or otherwise verify that the equipment cannot be restarted. They also must use test equipment to test the circuit elements and electrical parts of equipment to which employees will be exposed and must verify that the circuit elements and equipment parts are de-energized. The test must also determine if any energized condition exists as a result of inadvertently induced voltage or unrelated voltage backfeed even though specific parts of the circuit have been de-energized and presumed to be safe. If the circuit to be tested is over 600 volts, nominal, the test equipment must be checked for proper operation immediately after this test.

## **Reenergizing equipment**

These requirements must be met, in the order given, before circuits or equipment are reenergized, even temporarily:

1. A qualified person must conduct tests and visual inspections, as necessary, to verify that all tools, electrical jumpers, shorts, grounds, and other such devices have been removed, so that the circuits and equipment can be safely energized;
2. Employees exposed to the hazards associated with reenergizing the circuit or equipment must be warned to stay clear of circuits and equipment;
3. Each lock and tag must be removed by the employee who applied it or under his or her direct supervision. However, if this employee is absent from the workplace, then the lock or tag may be removed by a qualified person designated to perform this task provided that:
  - a. The employer ensures that the employee who applied the lock or tag is not available at the workplace; and
  - b. The employer ensures that the employee is aware that the lock or tag has been removed before he or she resumes work at that workplace;
4. There must be a visual determination that all employees are clear of the circuits and equipment.

## **Working on or near exposed energized parts**

This applies to work performed on exposed live parts (involving either direct contact or by means of tools or materials) or near enough to them for employees to be exposed to any hazard they present.

## **Work on energized equipment**

Only qualified persons may work on electric circuit parts or equipment that have not been de-energized under the procedures of the previous section. Such persons must be capable of working safely on energized circuits and must be familiar with the proper use of special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools.

## **Overhead lines**

If work is to be performed near overhead lines, the lines must be de-energized and grounded, or other protective measures must be provided before work is started.

If the lines are to be de-energized, arrangements must be made with the person or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating or insulating, are provided, these precautions must prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools or equipment.

## **Unqualified persons**

When an unqualified person is working in an elevated position near overhead lines, the location must be such that the person and the longest conductive object he or she may contact cannot come closer to any unguarded, energized overhead line than the following distances:

- For voltages to ground 50kV or below - 10 feet (305 cm);
- For voltages to ground over 50kV - 10 feet (305 cm) plus 4 inches (10 cm) for every 10kV over 50kV.



# ELECTRICAL STANDARDS FOR CONSTRUCTION

When an unqualified person is working on the ground in the vicinity of overhead lines, the person may not bring any conductive object closer to unguarded, energized overhead lines than the distances given in Table 1 (1910.333) (table S-5).

## Qualified persons

When a qualified person is working in the vicinity of overhead lines, whether in an elevated position or on the ground, the person may not approach or take any conductive object without an approved insulating handle closer to exposed energized parts than shown in Table 1, unless:

- The person is insulated from the energized part (gloves, with sleeves if necessary, rated for the voltage involved are considered to be insulation of the person from the energized part on which work is performed);
- The energized part is insulated both from all other conductive objects at a different potential and from the person; or
- The person is insulated from all conductive objects at a potential different from that of the energized part.

<b>TABLE 1 - APPROACH DISTANCES FOR QUALIFIED EMPLOYEES - ALTERNATING CURRENT</b>	
<b>Voltage range (phase to phase)</b>	<b>Minimum approach distance</b>
300V and less	Avoid Contact
Over 300V, not over 750V	1 ft. 0 in. (30.5 cm)
Over 750V, not over 2kV	1 ft. 6 in. (46 cm)
Over 2kV, not over 15kV	2 ft. 0 in. (61 cm)
Over 15kV, not over 37kV	3 ft. 0 in. (91 cm)
Over 37kV, not over 87.5kV	3 ft. 6 in. (107 cm)
Over 87.5kV, not over 121kV	4 ft. 0 in. (122 cm)
Over 121kV, not over 140kV	4 ft. 6 in. (137 cm)

## Vehicular and mechanical equipment

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines must be operated so that a clearance of 10 ft. (305 cm) is maintained. If the voltage is higher than 50kV, the clearance must be increased 4 in. (10 cm) for every 10kV over that voltage. However, under any of the following conditions, the clearance may be reduced:

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. (122 cm). If the voltage is higher than 50kV, the clearance must be increased 4 in. (10 cm) for every 10 kV over that voltage;
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier; and
- If the equipment is an aerial lift insulated for the voltage involved, and if the work is performed by a qualified person, the clearance (between the un-insulated portion of the aerial lift and the power line) may be reduced to the distance given in Table 1.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments, unless:

- The employee is using protective equipment rated for the voltage; or
- The equipment is located so that no un-insulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the line than permitted in the opening paragraph of this section;



# ELECTRICAL STANDARDS FOR CONSTRUCTION

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, must be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

## **Illumination**

Employees may not enter spaces containing exposed energized parts, unless illumination is provided that enables the employees to perform the work safely.

Where lack of illumination or an obstruction affects clear visibility of the work to be performed, employees may not perform tasks near exposed energized parts. Employees may not reach blindly into areas which may contain energized parts.

## **Confined or enclosed work spaces**

When an employee works in a confined or enclosed space (such as a manhole or vault) that contains exposed energized parts, the employer must provide, and the employee must use, protective shields, protective barriers or insulating materials as necessary to avoid inadvertent contact with these parts. Doors, hinged panels and the like must be secured to prevent their swinging into an employee and causing the employee to contact exposed energized parts.

## **Conductive materials and equipment**

Conductive materials and equipment that are in contact with any part of an employee's body must be handled in a manner that will prevent them from contacting exposed energized conductors or circuit parts. If an employee must handle long dimensional conductive objects (such as ducts and pipes) in areas with exposed live parts, the employer must institute work practices (such as the use of insulation, guarding and material handling techniques), which will minimize the hazard.

## **Portable ladders**

Portable ladders must have nonconductive side rails if they are used where the employee or the ladder could contact exposed energized parts.

## **Conductive apparel**

Conductive articles of jewelry and clothing (such as watch bands, bracelets, rings, key chains, necklaces, metalized aprons, cloth with conductive thread or metal headgear) may not be worn if they might contact exposed energized parts. However, such articles may be worn if they are rendered nonconductive by covering, wrapping or other insulating means.

## **Housekeeping duties**

Where live parts present an electrical contact hazard, employees may not perform housekeeping duties at such close distances to the parts that there is a possibility of contact, unless adequate safeguards (such as insulating equipment or barriers) are provided. Electrically conductive cleaning materials (including conductive solids such as steel wool, metalized cloth and silicon carbide, as well as conductive liquid solutions) may not be used in proximity to energized parts unless procedures are followed which will prevent electrical contact.

## **Training**

Employees will be trained in and familiar with the safety-related work practices required by this program that pertain to their respective job assignments.

Qualified persons (i.e. those permitted to work on or near exposed energized parts) must, at a minimum, be trained in and familiar with the following:

- The skills and techniques necessary to distinguish exposed live parts from other parts of electric equipment;
- The skills and techniques necessary to determine the nominal voltage of exposed live parts; and
- The clearance distances specified in Table 1 and the corresponding voltages to which the qualified person will be exposed.

Training can be either classroom or on-the-job, or a mixture of both. The degree of training provided is determined by the risk to the employee.



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## NEW OSHA RECORDKEEPING REQUIREMENTS

By

Julie A. Pace

Stinson Morrison Hecker LLP

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# RECORDKEEPING, HAZARDOUS COMMUNICATIONS AND MSDS

By

Julie A. Pace

David A. Selden

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## I. RECORDKEEPING, HAZARDOUS COMMUNICATIONS AND MSDS

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**B. Information Recorded on the OSHA 300-A Form.**

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**C. Information Recorded on OSHA 301 Incident Report.**

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**D. Electronic Recordkeeping.**

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**E. Recordkeeping for Multiple Business Establishments.**

Cp"QUI C"522"mji "o wuv'dg"nrg v"lht"gej "dwulpguu"guv'cdkuj o gpv"vj cv"ku"gzr gev"v"v"dg"lp"qr gtcvqp"lht"ppg"l gct"qt"mji gtO'cm'uj qtv'vgo "dwulpguu"mjecvqpu"o c{"dg"tgeqtf gf"qp"ppg"QUI C"522"mji . "qt"qp"ugr ctcvg"QUI C"522"mji u"vj cv'eqo r kg"vj g"fcv"lht"uj qtv'vgo 3"mjecvqpu"dtqngp"fy p"d{"eqo r cp{"f kxkqp"qt"i gqi tcr j k'tgi kqpO'

Gcej "go r m{ gg"o wuv' dg" rpnrgf" hqt" tgr qtvpi "r wtr qugu" vq"ppg"qh"vj g" hcekrkku"qh"vj g"go r m{ gt. "qt"vq"vj g"go r m{ gt"u"mji "vj cv'eqxgtu"uj qtv'vgo "y qtnlmjecvqpuO'

Ki"cp"go r m{ gg"qh"ppg"guv'cdkuj o gpv"ku"lplwt gf "qt"dgeqo gu"km'y j kg"y qtnlpi "cv"c"fhhtg gpv"mjecvqp"qh"vj g"go r m{ gt. "vj g"go r m{ gg"u"lplwt {"uj qwr"dg"tgr qtv"qp"vj g"mji "hqt"vj g"mjecvqp"cv"y j lej "vj g"lplwt {"qeewtuO' Ki"vj g"go r m{ gg"ku"lplwt gf "y j kg"y qtnlpi "qwu"gf"cp{"hcekrkku"qh"vj g"go r m{ gt. "vj g"go r m{ gg"u"lplwt {"uj qwr"dg"tgr qtv"qp"vj g"mji "hqt"vj g"mjecvqp"y j gtg"vj g"go r m{ gg"pqto cm{"y qtmO'

Vj g"tgeqtf u"lht"cm'guv'cdkuj o gpw"o c{"dg"nrg v'cv"vj g"eqo r cp{"u"j gcf s wctvgtu"r tqxkf gf "vj cv"vj g"lpf kxkf wcn'mjecvqpu"tcpuo kv"vj g"lphqto cvkqp"cdqwlplwt lgu"cpf "knpgu"v"v"vj g"egpvcn'mjecvqp"y kj kp"ugxgp"fc{"u"qh"ctgeqtf cdng"lplwt {"cpf"r tqxkf gf "vj cv'go r m{ gt"ku"cdng"v"r tqf weg"cpf"ugpf"vj g"tgeqtf u"lhtqo "vj g"egpvcn'mjecvqp"v"vj g"guv'cdkuj o gpv'y kj kp"vj g"vko g"lhtco gu"tgs vkt gf"d{"qvj gt"ugevqpu"qh"vj g'tgi wcvqpuO'

RJ Z'F QEU'446348x3"

'Lwdg'RcegIF cxkf 'Ugrf gp"  
Ukpupp'O qttkqp"J gengt'NNR"



## F. Part-Time, Temporary, Contract and Leased Employees.

Cm' go r m{ ggu" o wuv' dg" eqxgtgf" qp" yj g" QUI C" 522" m{ . " kpenmf kpi " r ctv' vko g" qt" ugcupcn' y qtngtu0' kplwtgu" vq" y qtngtu" y j q" ctg" uwr gtxkugf" qp" c" f c{ /vq/ f c{ "dcuku" d{ "cp" go r m{ gt. "gxgp" kh' yj g{ " ctg" qp" yj g' r c{ tqm' qh' cp" go r m{ o gpv' ci gpe{ "qt" qy gt' r tqxkf gt' qh' rcdqt. "o wuv' dg" kpenmf gf" qp" yj g" QUI C" 522" m{ "hqt" yj g' r rceg' yj g' gtg' yj g{ 'y qtn0'

C" vgo r qtct{ "go r m{ o gpv' ugtxleg" qt" go r m{ gg" rnculpi " ugtxleg" f qgu' pqv' pggf" vq" tgr qt v' kplwtgu" yj cv' j cxg" dggp" tgr qt vgf" qp" yj g" QUI C" 522" m{ "qh' yj g" dwulpguu" yj g' gtg' yj g" go r m{ ggu" ctg" y qtnkpi 0' Gcej " kplwt{ " uq qwf" dg" tgr qt vgf" qpn{ " qpeg." pqv' d{ "dqy" yj g" go r m{ o gpv' ugtxleg" cpf " yj g" go r m{ o gpv' ugtxleg" u' ewuqo gt0'

Y qtngtu" y j q" ctg" wpf gt" yj g" f c{ /vq/ f c{ "uwr gtxkukqp" qh' c" eqpvtcevqt" o wuv' dg" tgr qt vgf" qp" cp" QUI C" 522" m{ "d{ " yj g" eqpvtcevqt. "dw' pqv' vq" yj g" dwulpguu" vq" y j qo " yj g{ "ctg" r tqxkf kpi " ugtxlegu0" Kh' yj g{ " ctg" wpf gt" yj g" f c{ /vq/ f c{ "uwr gtxkukqp" cpf "eqpvtqri' qh' yj g" dwulpguu" vq" y j qo " yj g{ "ctg" r tqxkf kpi " ugtxlegu." j qy gxgt. " yj g{ "o wuv' dg" tgr qt vgf" d{ " yj cv' dwulpguu0'

## G. Partial Exemption for Small Employers0'

Uo cm' go r m{ gtu" y j q" ctg" f ghkpgf "cu' yj qug' y kj "vgp" qt' hgy gt" go r m{ ggu" cv' cm' vko gu' f wt kpi " yj g" o quv' tgegpv' ecrpgf ct" { gct. "ctg" gz go r v' htqo "o quv' tgeqtf ngr kpi " tgs vkt go gpw0' 4; "E(HT0' E" 3; 2608= C0C0E0' T6/35/8640' Cm' go r m{ ggu" cv' cm' hcekrkku" o wuv' dg" eqwpgf 0' " Uo cm' go r m{ gtu" o wuv' ppxgtv' gnuu" tgr qt v' hcvrkku" cpf "ceekf gpw" tguwmpkpi "kp" yj g" j qur kcrk cvkqp. "qh" yj gug" go r m{ ggu" cpf " o wuv' tgr qp" vq" ucvkukecr' uwt xg{ u' qh' yj g' Dwt gcw' qh' Ncdqt' Ucvkukcu0'

## H. Partially Exempt Industries.

Egtvclp" dwulpguu" guvcdnkuj o gpw' yj cv' QUI C" j cu' f gvgto kpgf "vq" dg" hqy " j c{ ctf " kpf wutlgu" ctg" pqv' tgs vkt gf "vq" ngr "kplwt{ "cpf " kmpguu" tgeqtf u" wprguu" QUI C" f kgeu" yj g" go r m{ gt "vq" f q" uq0' 4; "E(HT0' 3; 26040" Cm' go r m{ gtu" y j qy gxgt. "ctg" tgs vkt gf "vq" uwd0 k' tgr qt w' qh' y qtnr rceg" hcvrkku" cpf "ceekf gpw" yj cv' j qur kcrk g" yj tgg" qt" o qtg" go r m{ ggu0 " Vj g" r ctv' kn' kpf wut{ " gz go r v' kpu" ctg" dcugf " wr qp" yj g" Ucpf ctf " kpf wut kn' Ercuuk hcvkpu" \*UKE+ " cr r rcdng" vq" yj qug" dwulpguu0' Vj g" hqmqy kpi "ku" yj g" rku' qh' UKE "Eqf gu' hqt" yj kcj "go r m{ gtu" ctg" gz go r v' htqo " ngr kpi "kplwt{ "cpf " kmpguu" tgeqtf u<

SIC Code	Industry Description
747"	J ct f y ctg" Uqtgu"
764"	O gcv' cpf "Hkuj "O ctngw"
766"	Ecpf { . "P w' cpf "Eqphgevkpgt{ "Uqtgu"
767"	F ckt{ "Rtqf wcu" Uqtgu"
768"	Tgvckn' Dcngt kgu"
76; "	O kuegmcpqwu" Hqkf "Uqtgu"



"

SIC Code	Industry Description
773"	P gy "cpf "Wugf "Ect "F gcrgtu"
774"	Wugf "Ect "F gcrgtu"
776"	I cuqrkpg "Ugtxleg "Ucvkqpu"
779"	O qvqte { eng "F gcrgtu"
78"	Cr r ctgn "cpf "Ceeguqt { "Uqgtu"
795"	Tcf kq. "Vgrgxkukp. "( "Eqo r wgt "Uqgtu"
7: "	Gcvkpi "cpf "F tlpnkpi "Rrcgu"
7; 3"	F t wi "Uqgtu"cpf "Rtqr tlgvct { "Uqgtu"
7; 4"	Nks wqt "Uqgtu"
7; 6"	O kuegmcpqgw "Uj qr r kpi "I qqf u "Uqgtu"
7; ; "	Tgvcn "Uqgtu. "P qv "Gngy j gtg "Encuukhgf "
82"	F gr qukqt { "kpukwkqpu" *dcpm) ( "ucxkpi u" kpukwkqpu"
83"	P qpf gr qukqt { "kpukwkqpu" *etgf k) "kpukwkqpu+ "
84"	Ugewt k) "cpf "Eqo o qf k) "Dtqngtu"
85"	kpuwtcpeg "Ecttktu"
86"	kpuwtcpeg "Ci gpw. "Dtqngtu) ( "Ugtxlegu"
875"	Tgcn "Gucv" "Ci gpw "cpf "O cpci gtu"
876"	Vkng "Cdutcev "Qhlegu"
89"	J qrf kpi "cpf "Qvj gt "kpxguo gpv "Qhlegu"
944"	Rj qvqi tcr j le "Uwf kqu. "Rqtvcck"
945"	Dgcw) "Uj qr u"
946"	Dctdgt "Uj qr u"
947"	Uj qg "Tgr ck "cpf "Uj qguj kpg "Rctnqtu"
948"	Hwpgtcn "Ugtxleg "cpf "Etgo cvqtktu"
94; "	O kuegmcpqgw "Rgtuqpcn "Ugtxlegu"
953"	Cf xgtvkulpi "Ugtxlegu"
954"	Etgf k) "Tgr qtvkpi "cpf "Eqmgevkkp "Ugtxlegu"
955"	O ckikpi . "Tgr tqf wevkp. "( "Uvgpqi tcr j le "

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RJ ZF QEU374348xk"

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Lwk "Rceg IF cxk "Ugrf gp"  
Ukpuqp "O qttkuqp "J gengt "NNR"

"



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SIC Code	Industry Description
"	Ugtxlegu"
959"	Ego r wgt "cpf 'F cwc' Rtqeguukpi 'Ugtxlegu"
95: "	O kuegmcpqgwu'Dwulpguu'Ugtxlegu"
986"	Tgwr j qnugt { 'cpf 'Hwtpkwtg'Tgr ckt"
9: "	O qvkkp'Rlewtg"
9; 3"	F cpeg'Uwfkqu.'Uej qqnu.'cpf 'J cmu"
9; 4"	Rtqf wegtu.'Qtej gwtcu.'Gpvgtwkpgtu"
9; 5"	Dqy rkp 'Egpgtu"
: 23"	Qhlegu'('Erkleu'qh'O gf lecnF qevqtu"
: 24"	Qhlegu'cpf 'Erkleu'qh'F gpvkuu"
: 25"	Qhlegu'qh'Quvqr cyj le'Rj { ulekcpu"
: 26"	Qhlegtu'qh'Qvj gt'J gcnj 'Rtcevkqpgtu"
: 29"	O gf lecn'cpf 'F gpvcn'Ncdqtcwtkgu"
: 2; "	J gcnj 'cpf 'Cmkgf 'Ugtxlegu.'P qv'Gmgy j gtg'Emuukhgf "
: 3"	Ngicn'Ugtxlegu"
: 4"	Gf wecvkqpcn'Ugtxlegu'*uej qqnu.'eqmgi gu." wplxgtukkgu'cpf 'hktctkgu+"
: 54"	Kpf kxkf wcn'cpf 'Hco kn 'Ugtxlegu"
957"	Ej kf 'F c{ 'Ectg'Ugtxlegu"
: 5; "	Uqekcn'Ugtxlegu.'P qv'Gmgy j gtg'Emuukhgf "
: 63"	O wugwo u'cpf 'Ctv'I cmgtkgu"
: 8"	O go dgtuj kr 'Qti cplk cvkqu"
: 9"	Gpi kpggtkpi . 'Ceeqwpkpi . 'Tgugctej . " O cpci go gpv.'cpf 'Tgrvvgf 'Ugtxlegu"
: ; ; "	"Ugtxlegu.'pqv'gmgy j gtg'emuukhgf "

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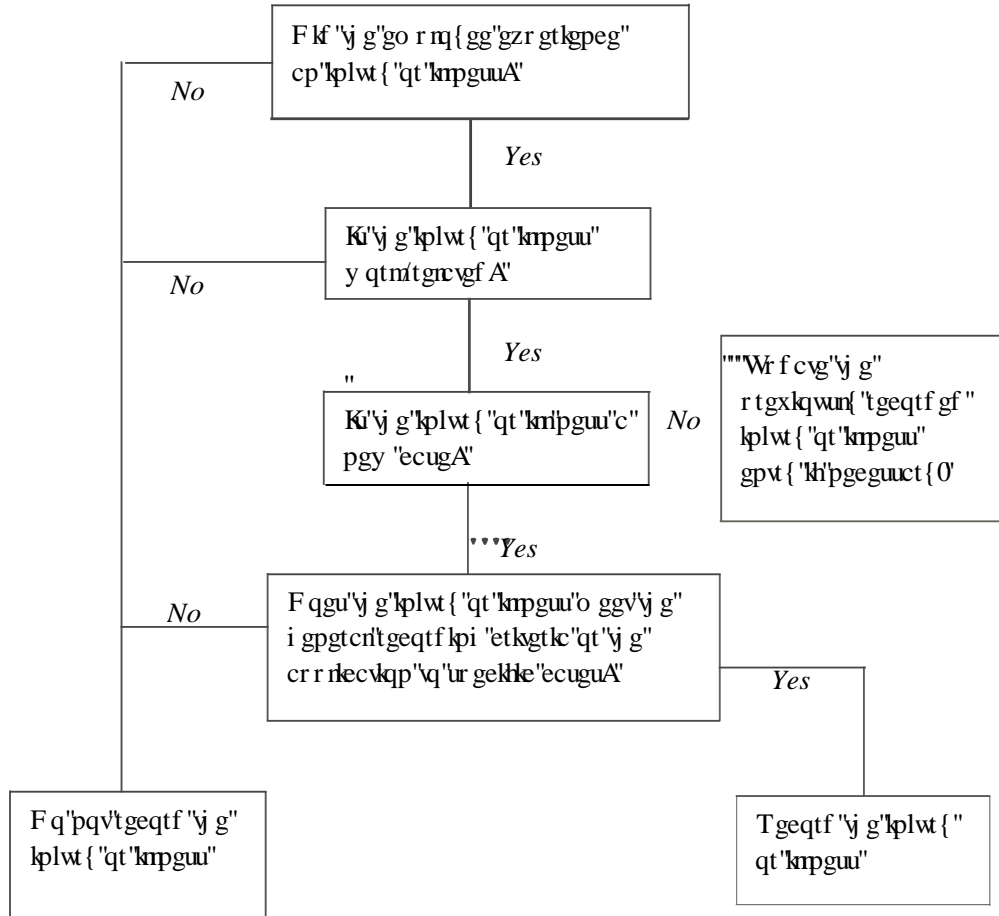
RJ ZF QEU374348xk"

Lwkg'RcegIF cxkf 'Ugrf gp"  
Ukpuqp'O qttkuqp'J gengt'NNR"



## I. Basic Requirement to Record Injuries and Illnesses.

Wpuguu"gz go r v."gcej "go r m{ gt"o wu'nggr "tgeqtf u"qh'cm'pgy "y qtn'tgrv'gf "lplwt'kgu'cpf "kmpguu" Vj g"\$f gekukp"tgg\$wugf "d{ "QUJ C"v"r tqxkf g"i wkf cpeg"y j gtg"cp"go r m{ gt"o wu'tgeqtf "lplwt{ "qt"mpguu" ku'tgr tlv'gf "dgrny 0"4; "E(HOT0h; 2606\*d+\*4+0"



## J. Determination of Work-Relatedness.

Cp" lplwt{ " ku" y qtn'tgrv'gf " kh" cp" gxgpv" qt" gxr quwtg" kp" yj g" y qtn' gp'k'qpo gpv' oecwugf " qt" eqp'kdw'gf o"v"y g"lplwt{ "qt"mpguu"qt" \$uki pl'kecpv' "ci i txcv'gf "c"r tg/gz'k'kpi "lplwt{ "qt"mpguu"0"4; " E(HOT0E 3; 2607\*c+0QUJ C"y kn'r tguwo g"y cv'cp"lplwt{ "ku" y qtn'tgrv'gf "kh"v'qee'wt'gf "cv'y qtn'w'p'guu"qpg" qh'y g'hqmy lpi "gzegr v'kpu"cr r n'gu0"

Gzegr v'kpu"y cv'o cng"lplwt'kgu"pqv'tgeqtf cdrg"gxgp"kh'y g{ "qee'w"cv'y qtn'0" 4; "E(HOT0"3; 2/107\*d+\*4+0"

RJ ZF QEU374348x3"

Lwkg'RcegIF cxkf "Ugrf gp" Ukp'up"O qtt'k'up"J gengt'NNR"



Ki'v' g"go r m{ gg'y cu'kplwtgf "y j kg'r t gupv'cv'y qtmk'p'v' g'tqng'qh'c"  
ewuqo gt"qt'o go dgt'qh'v' g'i gpgtcn'r wdrke. 'tc'v' gt'v' cp'cu'cp"  
go r m{ gg'0'

Vj g'u{o r vqo u'qh'v' g'kplwt{ "qt'kmpguu'lwthcegf "cv'y qtm'dw"  
tguwngf 'htqo "c'pqp/y qtm'tgrv'gf "gxgpv'qt"gzr quwtg0'

Vj g'kplwt{ "qt'kmpguu'tguwngf 'htqo "c'eqo r rvg'n{ "xqmpvct{ "cevkxk{ ."  
uwej "cu'r ctv'ekr cv'kpi "k'p'c'y gmpguu'r tqi tco . 'f qpcv'kpi "dmqf . 'c'hw"  
uj qv. "gz gtekug'encuu. "qt'uqekcnk'v' ng'ke'cevkxk'kgu. "uwej "cu'uqhdncn0'

Vj g'kplwt{ "qt'kmpguu'tguwngf 'htqo "v'j g'go r m{ gg'gcv'kpi "qt'f t'kpnkpi "  
hqf "cv'y qtm'tgi ctf rguu'y j gv'j gt'v'j g'hqf "y cu'r tgr ctf "cv'v'j g"  
go r m{ gt'u'guvdrkuj o gpv'0'Ki'v' g"go r m{ gg'dgeqo gu'kn'dgecwug'qh"  
eqp'co kpcv'kpi "v'j hqf "cu'c'tguwng'qh'v' g'go r m{ gt'u'cevkxk'kgu. "uwej "cu"  
ngcf "r qkqkpi . "v'j g'kplwt{ "ku'y qtm'tgrv'gf 0'

Vj g'kplwt{ "qt'kmpguu'qeewt'gf "y j kg'v'j g"go r m{ gg'y cu'f qkpi "  
r gtuqpcn'v'cumu'wptgrv'gf "v'j g'lqd. "qwu'kf g'qh'v' g'cu'ki pgf "y qtm"  
j qwtu. "gxgp'k'v'j g"go r m{ gg'gpi ci gf "k'p'uwej "cumu'cv'v'j g"  
go r m{ gt'u'r r'ceg'qh'dwukp'guu0'

Vj g'kplwt{ "qt'kmpguu'y cu'kpgv'kqpcn{ "ugr'h'kph'v'gf "d{ "v'j g"  
go r m{ gg'qt'y cu'v'j g'tguwng'qh'v' g'go r m{ gg'u'i tqqo kpi "cevkxk'kgu"  
qt'o gf kcv'kpi "hqt'c'pqp/y qtm'tgrv'gf "eqpf k'kqpi0'

Vj g'kplwt{ "ku'ecwugf "d{ "c'o qv'qt'x'gj keng'ceekf gpv'k'p'v'j g'r ctnkpi "m'v'qt"  
qp'cp'go r m{ gt'u'ceeguu'tqcf "y j kg'v'j g"go r m{ gg'ku'eqo o w'kpi "v'j"qt"  
htqo "y qtm0'

Vj g'go r m{ gg'dgeqo gu'kn'htqo "v'j g'eqo o qp'eqrf "qt'v'j g'hw0'Ki'v' g"  
go r m{ gg'ku'kph'v'gf "cv'y qtm'htqo "j gr cv'kku. "wdgtewu'ku. "qt'q'v'j gt"  
eqp'ci k'wu'f kugcugu. "k'ku'y qtm'tgrv'gf 0'

Go r m{ ggu"gzr gtlg'pelpi "c"o gpv'cn'kmpguu. "wprguu"v'j g"go r m{ gg"  
h'w'p'kuj gu'v'j g"go r m{ gt'y k'v'j "cp"qr k'kqpi"htqo "c"r'keg'pugf "j gcmj "  
r tqh'gu'kqpcn'v'cv'kpi "v'j cv'v'j g'o gpv'cn'kmpguu'ku'y qtm'tgrv'gf 0'

QUI C"v'ng'u'v'j g'r qu'k'kqpi"v'j cv'h'k'ku'pqv'qdx'k'wu'y j gv'j gt"cp'kplwt{ "qt'kmpguu'y cu'ecwugf "d{ "  
cp"gzr quwtg"qt"gxgpv'cv'y qtm"v'j g"go r m{ gt"o wuv'õ'gxcn'w'v'j g"go r m{ gg'u'y qtm'f w'kgu'cpf "y qtm"  
gp'x'k'qpo gpv'v'q'f g'ekf g'o'y j gv'j gt"qt'pqv'v'j g'y qtm'gp'x'k'qpo gpv'ecwugf "v'j g'kplwt{ "qt'kmpguu'qt"  
uki p'h'ecp'v' "ci i t'cx'v'gf "c'r t'g/gz'k'kpi "eqpf k'kqpi04; "E0H0F0h"; 2607\*d-#5-0'

K'p" f'gv'gto k'kpi "y j gv'j gt" v'j g" y qtm' gp'x'k'qpo gpv' uki p'h'ecp'v' "ci i t'cx'v'gf "c" r t'g/gz'k'kpi "  
eqpf k'kqpi."QUI C"cf x'kgu"v'j cv'v'j g'h'q'm'y kpi "h'ce'v'qtu'tguwng'k'p'c"t'gs w'k'go gpv'v'q'f t'gr q't'v'cp'kmpguu'qt"  
kplwt{ "qp"v'j g'i t'qwpf u'v'j cv'k'y cu'v'j g'uki p'h'ecp'v' "ci i t'cx'v'k'kqpi"qh'c"r t'g/gz'k'kpi "eqpf k'kqpi04; "E0H0F0"  
3; 2607\*d-#6-0'

RJ ZFQEU374348x3"

""""Lw'kg'Rceg'f'cx'kf "Ugr'f'gp"  
""""""U'k'pu'qp'O q'tt'ku'qp'J' gengt'NNR



\*kÁ Cp"lplwt {"qt"mpguu"ecwugf "c"fgcvj "vj cv'y qwf "hknq ["pqv"] cxg"  
qeewttgf "h'k'j" cf "pqv'dggp"ht "y g"qewr cvkqpcn'gxgpv'qt "  
gZR quwtgO'

Vj g"go r m{"gg"gzr gtlgpegu"cu"mqu"qh'eqpuekwupguu"vj cv'y qwf "  
hknq ["pqv"] cxg"qeewttgf "y kj qw'vj g"gxgpv'qt "gzr quwtg"cv'y qtnO'

Vj g"go r m{"gg"y cu'cdugpv'htqo "y qtnlqt"j cf "tguwlevgf "f wku"qt "c"lqd"  
vcpuhgt "vj cv'y qwf "pqv"] cxg"qeewttgf "y kj qw'vj g"qewr cvkqpcn'gxgpv'qt "  
gzr quwtgO'

Vj g'y qtnr nceg"gzr quwtg"ecwugf "o gf lecn'tgcvo gpv'qt "c"ej cpi g"lp"  
o gf lecn'tgcvo gpv'vj cv'qj gty kug'y qwf "pqv"] cxg"dggp"pgeguuct {"ht"  
y g'r tg/gzkupi "eqpf kkpO'

**a. Work-Related Injuries or Illnesses While Traveling.**

Cp"lplwt {"qt"mpguu"ku"fggo gf "v"dg"y qtn'tgrvfg "y j kg"cp"go r m{"gt"ku"vxcgkpi "h"vj g"  
go r m{"gg"y cu'gpi ci kpi "lp"cu"y qtn'cevkxkx "Sp"vj g'lpvgu'qh'vj g"go r m{"gt"\$"cv'vj g"ko gOUvej "cevkxkxgu"  
kpenf g'pqv'qpn ["vxcgn"dw'dwukpguu"gpvgtvcpo gpO4; "E(HO)03; 26O\*d+8+O'

Cp"go r m{"gg"ku"pqv'eqpukf gtgf "v"dg"y qtnkpi "qpeg"j g"qt"uj g"ej gemu"lp"v"cu"j qvgn'qt "h"vj g"  
go r m{"gg"vqnm"cf gqwt "ht"r gtuqpcn'tgcuqpu"y j kg"vxcgkpi O'

**b. Injuries Incurred While Working at Home.**

QUI C"i kxgu"vj g"hmjy kpi "gzco r ngu"qh"lplwtku"vj cv'ctg"tgeqtfcdrg"qt"pqp/tgeqtfcdrg"  
fgr gpf kpi "wr qp"vj g"ektewo ucpegu"wpf gt"y j lej "vj g"lplwtku"qeewttgf "y j kg"vj g"go r m{"gg"ku"cv'j qo gO'  
4; "E(HO)0'3"; 26O\*d+9+O"Vj g"i gpgtcn'twrg"ku"vj cv'h"vj g"lplwt {"qeewttgf "y j kg"vj g"go r m{"gg"ku"  
r gthqto kpi "y qtnl'ht"eqo r gpucvqp"lp"vj g"j qo g."k'ku"eqpukf gtgf "y qtn'tgrvfg O'Vj g"ur gekle"gzco r ngu"  
i kxgp'd {"QUI C"ctg"cu'hmjy u<

\*kÁ Cp"lplwt {"ku'tgeqtfcdrg'hk<

Cp"go r m{"gg"ftqr u'c"dqz"qh'y qtn'f qewo gpw'cpf "lplwtgu"j ku'qt"j gt'hqqv"  
y j kg"cv'j qo gO'

Cp"go r m{"gg"y j q'r gthqto u'i cto gpv'y qtniku'r wpewtgd {"c"ugy kpi "  
o cej kpg'pggf "rg"dgeqo gu'phgevgf "cpf "pggf u'o gf lecn'tgcvo gpvO'

\*kÁ Cp"lplwt {"ku'pqv'tgeqtfcdrg"lp"vj g"hmjy kpi "ektewo ucpegu<

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""Lwkg"RcegIF cxkf "Ugrf gp"  
\*\*\*\*\*Ukpuqp"O qttkuqp"J gengt"NNR



- Á Cp"go r m{ gg'tkr u'qp'yj g'hco kx 'fqi 'y j kg'twuj kpi 'v'cpuy gt'c'y qtnf"
- Á Cp"go r m{ gg'ku'grgevtqewgf 'd{ 'h'wmx 'j qo g'y k kpi 0'

## K. Determination of New Cases.

Cp'kplwt { "qt"knpguu'o wuv'dg'eqpukf gtgf 'c'pgy 'ecug'yj cv'o wuv'dg'tgr qtvf 'kh'yj g'go r m{ gg'j cf "pqv'r t g x k q w u n { "g z r g t k p e g f "c"t g e q t f g f "k p l w t { "q t "k n p g u u "q h "y j g 'u c o g "v { r g "v q "y j g 'u c o g "d q f " { "r c t v "q t "y j g 'g o r m { g g "j c f "r t g x k q w u n { "t g e q x g t g f "h t q o "y j g 'u c o g "k p l w t { "q t "k n p g u u "c p f "c m 'u k i p u "c p f "u { o r v q o u "j c f "f k u c r r g c t g f "w p v k i c "p g y "y q t n i r n e g "k p l w t { "q t "g z r q u w t g 0 4 ; "E O H O T 0 3 ; 2 6 0 8 0 "

### 1. Chronic Conditions.

Go r m { g t u "f q "p q v "p g g f "v "t g c v "c u "c "p g y "k p l w t { "q t "k n p g u u "c "t g e w t t g p v "u { o r v q o u "q h "c "e j t q p l e "e q p f k k q p 0 V j g "k p l w t { "q t "k n p g u u "o c { "d g "t g e q t f g f "q p n { "q p e g 0 4 ; "E O H O T 0 n ; 2 6 0 8 \* d + 0 "

### 2. Reliance on Medical Opinions.

Cp"go r m { g t "k u "p q v "t g s w k t g f "v "q d v c k p "c "r t q h g u k q p c n "q r k p k p "t g i c t f k p i "y j g y j g t "c p "k p l w t { "q t "k n p g u u "k u "c "p g y "e c u g "q t "c "t g e w t t g p e g "q h "c p "q r f "e c u g . "j q y g x g t "k h "y j g "g o r m { g t "f q g u "q d v c k p "c "r t q h g u k q p c n "q r k p k p . "k 'o w u v "h q m y "k 0 "k i "y j g "g o r m { g t "t g e g k x g u "y q "r t q h g u k q p c n "q r k p k p u . "k 'o w u v "f g v g t o k p g "y j k e j "k u "y j g "o q u v "c w j q t k c v k x g "c p f "t g r k c d r g "c p f "h q m y "k 0 4 ; "E O H O T 0 K ; 2 6 0 8 \* d + 5 + 0 "

## L. Criteria Mandating That an Injury Must Be Recorded.

C "y q t n i t g r v g f "k p l w t { "q t "k n p g u u "o w u v "d g "t g e q t f g f "k h "c p { "q h "y j g "h q m y k p i "e q p f k k q p u "q e e w t 0 4 ; "E O H O T 0 3 ; 2 6 0 0 "

### 1. Death.

Kp"cf f k k q p "v "t g e q t f k p i "y j g "f g c v j "c u "c p "k p l w t { "q p "c p "Q U I C "5 2 2 "m i . "g o r m { g t u "o w u v "t g r q t v "c p { "h c v k k g u "v "Q U I C "y k j k p " : "j q w t u 0 4 ; "E O H O T 0 E E " 3 ; 2 6 0 \* d + 4 + 3 ; 2 6 0 5 ; 0 "

### 2 Days Away From Work.

Vj g "g o r m { g t "o w u v "y t k g "q p "y j g "Q U I C "5 2 2 "m i "y j g "p w o d g t "q h "e c r g p f c t "f c { u "y j c v "c p "g o r m { g g "k u "g z r g e v g f "v "d g "c y c { "h t q o "y q t n i y j g p "y j g "k p l w t { "k u "t g e q t f g f 0 V j g "g o r m { g t "o c { "g p v g t "c p "g u n k o c v g "c p f "e q t t g e v "y j g "h q t o "y j g p "y j g "c e w c n "p w o d g t "q h "f c { u "c y c { "d g e q o g u "h p q y p 0 4 ; "E O H O T 0 E n ; 2 6 0 \* d + 5 + 0 "

Vj g "f c { "q p "y j k e j "y j g "k p l w t { "q e e w t g f "f q g u "p q v "e q w p v "c u "c "f c { "c "t c { "h t q o "w q t n 0 "

Y g g m g p f u . "j q r k f c { u "c p f "x c e c v k p "f c { u "o w u v "d g "k p e n f g f "k p "y j g "p w o d g t "q h "f c { u "c y c { "h t q o "y q t n i k h "y j g "g o r m { g g "y q w f "p q v j c x g "d g g p "c d r g "v q "y q t n i q p "y j q u g "f c { u 0 "

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" "Lwkg'RceglF cxkf 'Ugrf gp"  
 "\*\*\*\*\*Ukpuqp'O qttkuqp'J gengt'NNR"



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QUJ C "i kxgu"cp"gzco r ng"vj cv"kh"cy qtngt "ku"lplwtgf "qp" c "Hkf c{ . "y cu"pqv"uej gf wngf "vq" y qtnlqp"vj g"y gngpf "cpf "tgwtpu"vq"y qtnlqp"O qpf c{ . "vj g"go r m{ gt "o wuv'tgeqtf "vj g"y gngpf " f c{ u"cu"fc{ u"cy c{ "Hqo "y qtnlqp"kh"lvtgegkxgu"lphqto cvkp"Hqo "c"j gcnj ectg'r tqhgukqpcn"vj cv" vj g"go r m{ gg"y qwf "pqv"j cxg"dggp"cdng"vq"y qtnlqt"y qwf "j cxg"j cf "tgutlevgf "y qtnlf wkgu"qxgt" vj g"y gngpf 0Vj g"uco g"twrg"cr r kgu"lp"vj g"ecug"qh"lplwtkgu"lwuv'dghqg"xcecukpu."j qrkf c{ u."qt" r gtlkf u"qh'r rnpv"lj wf qy p0

"

Vj gtg"ku"3: 2"f c{ "Secr \$"qp"vj g"pwo dgt"qh'f c{ u"cp"go r m{ gg"ku"cy c{ "Hqo "y qtn"gxgp"kh" vj g"go r m{ gg"ku"wpdng"vq"tgwtp"vq"y qtnlcv"vj cv'r qkp0Vj g"go r m{ gt "o c{ "uko r n{ "y tkg"3: 2"lp" vj g"ur ceg"qp"vj g"QUJ C"522"mi "lp"vj qug"ekewo ucpegu0

Ki"cp"go r m{ gg"tgutgu"qt"ngcxgu"vj g"eqo r cp{ "hqt"qyj gt"tgcuppu"y j kg"cy c{ "Hqo "y qtnl qt"qp"tgutlevgf "y qtnlf wv{ . "vj g"go r m{ gt "o c{ "uqr"eqwv"lp"vj g'f c{ u"cy c{ "Hqo "y qtn0

"

Ki"cp"lplwt{ "qeewtu"lp"qpg" { gct"dw"vj g'f c{ u"cy c{ "Hqo "y qtnleqpvpwg"lpv"vj g'hqmy lpi " dwukguu" { gct."vj g"go r m{ gt "uj qwf "tgeqtf "vj g"qcnpwo dgt"qh'f c{ u"cy c{ "Hqo "y qtnlp"vj g" { gct" lp"y j lej "vj g"lplwt{ "qt"mpguu"qeewtgf 0

"

Ki"r j { ulekp"qt"qyj gt"nlepuvf "j gcnj ectg'r tqhgukqpcn'tgeqo o gpf u"vj cv"vj g"go r m{ gg" tgo clp"qh'y qtnldw"vj g"go r m{ gg"eqo gu"vq"y qtnlcp{ y c{ . "vj g"go r m{ gt."ceeqtf lpi "vq"QUJ C" uj qwf "gpeqwtci g"vj g"go r m{ gg"vq"lqmy "vj g"f qewt"u"tgeqo o gpf cvkp"cpf "o wuv'tgeqtf "vj g" lplwt{ "qt"mpguu"qp"vj g"QUJ C"522"mi "cu" c"quv"y qtnlf c{ "gxgp"vj qwi j "vj g"go r m{ gg"eco g"vq" y qtn0

"

Eqpxgtugn{ "kh"vj g"j gcnj ectg'r tqhgukqpcn'tngcugu"vj g"go r m{ gg"vq"tgwtp"vq"y qtnlcpf " vj g"go r m{ gg"hc"ku"vq" f q"uq."vj g"go r m{ gt "f qgu"pqv"pggf "vq"eqwv"vj g'f c{ u"cy c{ "Hqo "y qtn0

"

### 3. Restricted work activities or transfer to another job.

Ki"cp"go r m{ gg"ku"tgutlevgf "Hqo "r gthqto lpi "vj g"tqwkpg"hpewkpu" \*vj qug"tgi wctn{ " r gthqto gf "cv"ngcu"qpeg"cy ggm"qh"j ku"qt"j gt"lqd"cpf "ku"tgrkxgf "qh"vj qug"fwkgu"qt"ku"tcpuhtgtgf " vq"cpqj gt"r qukkqp."vj g"go r m{ gt "o wuv'tgeqtf "vj g"pwo dgt"qh'f c{ u"qh'uwej "tgutlev"kp"qp"vj g" QUJ C"522"lqi 0"4; "E0H0E"3; 260\*d+\*6+0

"

C"tgutlevkp"qt"lqd"tcpuht"vj cv"qeewtu"qp" { "qp"vj g'f c{ "qp"y j lej "vj g"lmpguu"qt"lplwt{ " qeewtgf "f qgu"pqv"j cxg"vq"dg'tgeqtf gf 0

Ki"lqd"tgutlevkp"cr r kgu"qp" { "vq"pqp/tqwkpg"vcumu" \*vj qug"pqv'r gthqto gf "tgi wctn{ "cv" ngcu"qpeg"r gt"y ggm"vj g'tgutlevkp" f qgu"pqv"pggf "vq"dg'tgeqtf gf 0

Ki"vj g"y qtngt"y qtnlcv"cy"unqy gt"tcvg"dgecwug"qh"cp"mpguu"qt"lplwt{ . "k'ku"pqv'eqwv"vq"cu" c" f c{ "cy c{ "Hqo "y qtnlqt" c" f c{ "qh'tgutlevgf "y qtnlf wv{ 0

Vtcpuhtu"vq"cpqj gt"lqd"ctg"tgcvgf "lwuv'rkng"tgutlevgf "y qtnlht"r wtr qugu"qh'tgeqtf lpi "vj g" f c{ u"qp"cp"QUJ C"522"mi 0

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"" "Lwkg"Rceglf cxkf "Ugrf gp"  
\*\*\*\*\*"Ukpup"O qttkqp"J gengt"NNR

"



#### 4. Medical Treatment Beyond First Aid.

O gf lecn'vtgcvo gpv'dg{ qpf "Htu'ckf "o gcpcu" c"xkukv" vq" c"r j { ulekp"qt" qvj gt" rkegpugf "j gcnj ectg" r tqhguukqpcn" wprguu" yj g" qpn{ "r wtr qug" qh" uwej "c" xkukv" ku" qdugtxcvqp" qt" eqwpugrki "qt" f kci pquvke" r tqegf wtgu. "uwej "cu'z/tc{ u'cpf "dmqf "vguu. "qt' Htu'ckf O'

"

Htu'ckf "ku'f ghkpgf "cu'yj g'hqmuy kpi . "cpf "qpn{ "yj g'hqmuy kpi <

"

Wukpi "pqp/r tguetr vqp"o gf lecvqp"cv'pqp/r tguetr v'kqp'utgpi yj O'

"

cÁ Vgcpwu" ko o wplk cvkpuo' \*Qvj gt" ko o wplk cvkpu" hqt" j gr cvkku. " tcdlgu" qt" qvj gt" f kugcugu"ctg"eqpukf gtgf "o gf lecn'vtgcvo gpvO'

"

dÁ Engcpkpi . "hwuj kpi "qt"uqcnkpi "uwlhceg'unlkp'y qwpf uO'

"

eÁ Wukpi "dcpf ci gu. "kpenwf kpi "i cw' g'r cf u'cpf "dwgthn{ "dcpf ci gu. "dw'unkej gu. "uwr ngu" ctg"o gf lecn'vtgcvo gpvO'

"

fÁ J qv'qt"eqrf "yj gter { O'

"

gÁ Gruvle" dcpf "ci gu"qt"y ter u'cpf "pqp/tki kf "dcen'dgmuO'F gxlegu"y kj "tki kf "unc{ u'qt" yj cv'ko o qdkk' gu'r ctw'qh'yj g'dqf { "ctg"eqpukf gtgf "o gf lecn'vtgcvo gpvO'

"

hO' Vgo r qtctkn{ "ko o qdkk' kpi "c"dqf { "r ctv'y j kg'v'cpur qt vki "cp"ceekf gpv'xlevo . "uwej " cu'pgenteqmrt. "dcen'dqctf . "ur nkp. "gveO'

"

iÁ \$F tknki "\$" c" hki gtpckn' qt" vqgpckn' vq" tgrkxg" r tguwtg" qt" f tckpki " hmkf " htqo " c" drkugtO'

"

jÁ Wukpi "cp" g{ g'r cvej O'

"

kO' Wukpi "tki cvkqp"qt"eqwqp"uy cd"vq'tgo qxg" c" hqtgki p" qdlgev'htqo "yj g" g{ gO'

"

lO' Wukpi "y ggl gtu"qt"cpqy gt" vgej pls wg"vq'tgo qxg" c" ur nkpvt"qt"qvj gt" hqtgki p"o cvgtken' htqo "c" r ctv'qh'yj g'dqf { "qvj gt" yj cp" yj g" g{ gO'

"

nÁ Wukpi "c" hki gt" i wctf O'

"

oÁ Tgegkxkpi "c"o cuuci g. "j qy gxgt. "r j { ulecn'yj gter { "qt" c" ej kqr tcevtu"vtgcvo gpv'ku" eqpukf gtgf "o gf lecn'vtgcvo gpv'ht' tgeqtf ngr kpi "r wtr quguO'

"

o O" F tkpki " hmkf u"vq" cmgxlcvg" j gcv'utguuO'

"

Vj g'r tqhguukqpcn's wcn'lecvkpu'qh'yj g'r gtuqp"cf o l'pungtkpi "yj g"o gf lecn'vtgcvo gpv'qt' Htu'ckf " f qeu'pqv'chgev. "y j gyj gt' k'ku"o gf lecn'vtgcvo gpv'qt' Htu'ckf O'ÁÁ

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""Lwkg'RcegIF cxkf "Ugrf gp" """"Ukpuqp'O qttkuqp'J gengt "NNR

"



**5. Loss of Consciousness.**

Cm'kpekf gpegu'qh'c"nqu'qh'eqpuekwupguu."tgi ctf nqu'qh'j qy "uj qtv."o wuv'dg'tgeqtf gf "cu'cp" kplwt { "qt'knpguu0"

**6. Significant injuries or illnesses diagnosed by a licensed healthcare professional that must be recorded even without lost work days.**

QUI C"tgs wktgu'vj cv'uo g'kplwtkgu'cpf "knpguugu'dg'tgeqtf gf "gxgp"kh'vj g"go r m{ gg'f qgu'pqv' gZR gtlkpeg"cf c{ "cy c{ "htqo "y qtm'qt'wpf gti q'cp{ "o gf lecn'tgcwo gpv'0QUI C"i kxgu'cu'gzco r ngu'c" htcwtf "qt"etcengf "dpgg."c"r wpewtgf "gctf two ."qt"ej tqple."ktgxgtukdng"f kugcugu."uwej "cu'uo g" hqto u"qh"ecpegt0 QUI C" dngxgu" y cv' cm' uwej "eqpf kkpqu"uj qwf "dg"tgeqtf gf ."gxgp" y qwi j " vgej plectm{ "y gtg"o c{ "dg"pq"o gf lecn'tgcwo gpv'i kxgp"ht"uwej "eqpf kkpqu"cpf "gxgp" y qwi j "y g" go r m{ gg'ku'cdng'v'q' y qtm'y kj qwt'gwt'ekp0"

**a. Needle Stick Injuries.**

QUI C" tgs wktgu" yj cv' cm' y qtm'tgrv'f "pggf ng" uken' kplwtkgu" cpf "ewu" htqo " qdlgeu" eqpwo kpcv'f "y kj "cpqj gt'r gtuqp"u'dmqf "qt"qj gt'r qv'p'kcm{ "kphgekwu'o cvgtkn'o wuv'dg'gpvgtgf " qp" yj g"QUI C"522"mi . "j qy gxgt" go r m{ gt"o c{ "pqv' gpvt" yj g" go r m{ gg'u" pco g" hqt" r tkxce{ " r wtr qugu0"

Vj ku'f qgu'pqv'tgs wktg'vj cv'cm'ewu'qt"uetcvej gu'dg'tgeqtf gf ."dw'qpn{ "y qug'y kj "r qv'p'kcm{ " kphgekwu'o cvgtkn'0Ki'cp'kplwt { "ku'kpkcm{ "pqv'tgeqtf gf ."dw'ku'rvgt'hqwpf "qwu'q'kpxqng'c"dmqf "/" dqtpr'cvj qi gp."yj g" go r m{ gt"uj qwf "cf f "y g'kplwt { "v'ku'522"mi "cv'j cv'ko g0"

**b. Recording Medical Removal Situations.**

Ki'cp" go r m{ gg"ku"o gf lecm{ "tgo qxgf "htqo "cp" go r m{ gt'u"ej go lecn' gZR quwtg"qt" qj gt" y qtm'r eg'ukwcvkp."y g"o gf lecn'tgo qxcn'uj qwf "dg'tgeqtf gf "cu'c'tgwt'ekxg'y qtm'ce'v'kxk{ "wpf gt" yj g"\$r qkqpkpi \$"eqnw p"qh' yj g"QUI C"522"mi 0Ki' yj g" go r m{ gt"xqnpvctk{ "tgo qxgu'c"r gtuqp" dghgtg'yj g" go r m{ gg"o ggu'yj g"o gf lecn'tgo qxcn'etkgtk'qh'cp"QUI C"ucpf ctf."yj g" go r m{ gt"f qgu" pqv'pggf "v'tgeqtf "y g'ecug'qp'cp"QUI C"522"mi 0"

**c. Hearing Loss.**

Vj g" go r m{ gt"o wuv'tgeqtf "qp" yj g"522"mi "c"\$j gctkpi "quu"\$h'cp" go r m{ gg'u"j gctkpi "vgu" tngxcm' yj cv'c"ucpf ctf "y tguj qrf "uj km"cu"f gh'kpgf "kp" yj g"pqkug/gZR quwtg"ucpf ctf."4; "E(HOT'È" 3; 32Q 7\*e+32+ki0Ki'cp" go r m{ gg"ku'tgvugf "y kj kp"52"f c{ u'qh' yj g"htuv'vgu'uj qy kpi "c"ucpf ctf " yj tguj qrf "uj km'cpf "kh' yj g'ugeqpf "vgu'f qgu'pqv'eqph'to " yj g'tguwn' yj g"j gctkpi "quu'f qgu'pqv'pggf "v" dg'tgeqtf gf 0Kp'cf f kkp."kh'c"r tqhguukp'cn'f gvgto kpgu'yj cv' yj g"j gctkpi "quu'j cu'pqv'dggp"ecwugf "qt" uki p'k'ecpwn{ "ci i txcv'f "d{ "y qtm'yj gp'k'pggf "pqv'dg'tgeqtf gf 0"

90' Tgeqtf kpi "O wewuq/Ungrgvni'F kuqtf gtu'Gti qpqo le'kplwtkgu0"

QUI C"tgs wktgu'vj cv'o wewuq/ungrgvni'f kuqtf gtu'0UF +"dg'tgeqtf gf "qp" yj g"QUI C"522"mi " wulpi " yj g" uco g" etkgtk' yj cv' ctgc" cr r ncedng' v' qj gt" kplwtkgu0 " OUF u" kpenf g" f kuqtf gtu' qh"

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"" Lwkg'RcegIF cxkf "Ugrf gp" """"""Ukpupq'0 qttkqp"J gengt'NNR



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# FIRE PROTECTION PLAN

## HAZARD COMMUNICATION PROGRAM - (29 CFR - 1910.1200)

**THIS IS THE MOST FREQUENTLY CITED OSHA SAFETY STANDARD.** "Vj g'r wtr qug'qh'yj g" tgi wrcvqp'ku'vq'gputg'yj cv'go r m{ ggu'yj q'ctg. "qt'o c{ 'dg'g'zr qugf "vq'c'j c| ctf qwu'uwducpegu'w'pf gtu'cpf "y'j g" r j { ulecn'cpf "j gcmj "j c| ctf u'cuuqek'v'f "y'j kj "y'j gug'uwducpegu'uq'v'j cv'cr r tqr tlc'v'g'uvgr u'o c{ 'dg'v'cngp'vq'r tqv'ev' y'j go ugr'xgu'Wp'rkng'q'v'j gt'ej go lecn'tgi wrcvqp'u'v'j gtg'ku'ho *minimum quantity exemption* hqt "y'j ku'tgi wrcvqp'O' Gxgp'c'uo cm'dq'w'g'qh'c'")j c| ctf qwu'uwducpeg's'qp'cp'go r m{ gg'u'f gum'ku'uw'h'le'k'p'v'v'q't'gs w'kt'g'cp'go r m{ gt'v'q" f'gxgmr "c'j c| ctf "eqo o wplecvqp'uv'cpf ctf "r tqi tco 0

Vj g'uv'cpf ctf "ecp'dg'f'k'k'f'g'f "lp'v'q'h'x'g'g'go g'p'u'0[ q'w'o w'u'v'eqo r n' "y'j kj "cm'q'h'yj g'g'go g'p'u'v'q'cxq'k'f'ek'c'v'k'p'u'0" Vj g'g'go g'p'u'ctg<

30" F'gxgmr "c'w'ritten program, y j lej "f'qewo g'p'u'v'j g'uv'gr u'hqt'eqo r r'k'peg'0

40" R'tgr ctg'c'list of all hazardous substances used in the workplace. M'gr "y'j ku'h'ku'w'r / "v'q'f'cv'g'0

50" E'go r k'g'Material Safety Data Sheets qp'v'j g'j c| ctf qwu'uwducpegu'w'ugf "lp'v'j g'j c| ctf qwu'uwducpegu'w'ugf " lp'v'j g'y' q'tnr r'eg'c'p'f "o cng'v'j go "cx'k'rd'ng'v'q'cm'go r m{ ggu'0

60" G'p'wt'g'v'j cv'cm'j c| ctf qwu'uwducpeg'e'q'p'v'k'p'gtu'ctg'properly labeled.

70A'Eq'f'w'v'training classes hqt "cm'ch'g'v'f "go r m{ gg'u'0

O'cp{ tq'q'h'p'i "eq'p't'ce'v'qtu'j c'p'f'ng'u'ducpegu.'y j lej "eq'p'v'k'p'c'o k'z'w't'g'q'h'ej go k'ec'm.'hqt "g'z'co r'ng.'e'ng'c'p'gtu." c'f'j g'u'k'x'gu.'g'v'e'0'c'ee'q't'f'k'p'i "v'q'v'j ku'Q'U'0'u'uv'cp'f'ctf.'k'h'yj g'o k'z'w't'g'eq'p'v'k'p'u'3' "qt'o q't'g'q'h'c'rk'ug'f' "\$j c| ctf q'wu' u'ducpeg.'\$'v'j g'o k'z'w't'g'k'ug'h'ku'eq'p'k'f'gt'g'f' "c'j c| ctf q'wu' u'ducpeg'0'k'i'v'j g'o k'z'w't'g'lp'e'nm'f'gu'0' "qt'o q't'g'q'h'c' " e'c'p'eg't'ec'w'ul'p'i "ci g'p'v'v'j g'o k'z'w't'g'y' q'w'f' "dg'eq'p'k'f'gt'g'f' "c'j c| ctf q'wu' u'ducpeg'0

K'i'f'q'w'ct'g'p'q'v'uw't'g'y'j g'v'j gt'v'j g'r tq'f'w'v'ku'c'j c| ctf q'wu' u'ducpeg.'k'v'ku'uw'i i g'uv'g'f' "y'j cv'f' q'w'c'uu'wo g'v'j cv'k'v'ku' w'p'rg'uu'f'q'w'ct'g'p'q'w'h'g'f' "q'v'j g'ty' k'ug'd'f' "v'j g'o c'p'w'h'ce'w't'gt' "qt'uw'r r'k'gt'0

[ q'w'uj q'w'f' "r'g't'hto "v'j g'h'q'm'y' k'p'i "ce'v'k'p'u'v'q'eqo r n' "y'j kj "y'j ku'uv'cp'f'ctf'0

30A' R'tgr ctg'c'y' tk'w'gp'J c| ctf "E'go o wplecvqp'eqo r r'k'peg'r tqi tco 0'Vj g'y' tk'w'gp'r tqi tco "uj q'w'f' "be eq'p'ek'ug." c'ee'w't'cv'g.'c'p'f' "eq'p'v'k'p'v'j g'h'q'm'y' k'p'i "lp'h'q'to c'v'k'p.'c'p'g'z'r r'p'c'v'k'p'q'h'j q'y' "f'q'w'y' k'ni'o g'g'v'v'j g't'gs w'kt'go g'p'u'q'h' r'cd'g'k'p'i.'e'q'ng'ev'k'p'i "v'j g'o c'k'p'v'k'p'k'p'i "O'cv'g't'k'cn'U'ch'g'v' "F'c'v' "Uj g'g'u.'c'p'f' "r'q'x'k'f' k'p'i "go r m{ gg'v't'c'k'p'k'p'i "c'p'f' " lp'h'q'to c'v'k'p'0

40" E'q'p'f'w'v'c'p'lp'x'g'p'v'q't' "v'q'f'g'v'g'to lp'g'y'j g'v'j gt' "f'q'w'j c'x'g'c'p'f' "j c| ctf q'wu' u'ducpegu'cv'f' "q'w' "uj q'r "q't'q'p' "f'q'w' " y'j q't'm'k'g'u'0'Vj g'h'ku'v'uj q'w'f' "lp'e'nm'f'g'v'j g'r tq'f'w'v'p'co g.'o c'p'w'h'ce'w't'gt'p'co g'c'p'f' "v'j g'c'f'f' t'guu'c'p'f' "h'q'ec'v'k'p'y'j g't'g' " v'j g'r tq'f'w'v'ku'd'g'k'p'i "w'ug'f' "lp' "f'q'w' "h'ek'k'v'f'0

50" T'g'x'lg'y' "v'j g'E'go r'c'p'f' "u'0'U'F'U'0'k'i'd'cu'g'f' "w'r'q'p'v'j g't'g'u'w'u'q'h'v'j g'j c| ctf q'wu' u'ducpeg'lp'x'g'p'v'q't' "v'j g't'g'c't'g' " o k'ul'k'p'i "O'cv'g't'k'cn'U'ch'g'v' "F'c'v' "Uj g'g'u.'u'g'p'f' "c'y' tk'w'gp't'gs w'gu'v'hqt'c'eq'r' "f'q'h'v'j g'f'q'ewo g'p'v'v'q'v'j g' " o c'p'w'h'ce'w't'gt.'k'o r'q't'v'g't' "f'k'ut'k'd'w'q't'q'h'v'j g'r tq'f'w'v'0' "M'g'gr "c'eq'r' "f'q'h'v'j g't'gs w'gu'v'g'w'g't'0

60A' G'p'wt'g'cm'r' tq'f'w'v'u'ct'g'r' tq'r' g't'n'f' "r'cd'g'ng'f'0I' g'p'g't'cm'f' "v'j g'o c'p'w'h'ce'w't'gt' "qt'f'k'ut'k'd'w'q't' "cu'wo g'u'v'j ku' " t'g'ur'q'p'uk'k'k'v'f'0J' q'y' g'x'g't.'k'v'ku'f' "q'w't'g'ur'q'p'uk'k'k'v'f' "v'q'g'p'wt'g'eqo r'ng'v'g'p'guu'q'h'v'j g'r'cd'g'ng'0'k'i'f' "q'w'ct'g'd'w'f' k'p'i " r' tq'f'w'v'lp' "d'w'm'ic'p'f' "t'c'p'uh'g't' "r' tq'f'w'v'lp' "uo c'ng't' "eq'p'v'k'p'gtu.'k'v'ku'f' "q'w't'g'ur'q'p'uk'k'k'v'f' "v'q' r'cd'g'ng'f' g'ug' "u'ge'q'p'f' c't'f' " eq'p'v'k'p'gtu'0

70A' E'q'p'f'w'v'Go r m{ gg'v't'c'k'p'k'p'i 0I' q'w'uj q'w'f' "eq'p'f'w'v'v't'c'k'p'k'p'i "u'g'u'k'p'u'y' kj "cm'ch'g'v'f' "go r m{ ggu'v'q'g'z'r'nc'lp' " v'j g'g'go g'p'u'q'h'v'j g't'gi wrcvqp.'j q'y' "v'q't'g'c'f' "c'0'cv'g't'k'cn'U'ch'g'v' "F'c'v' "Uj g'g'v'c'p'f' "r'cd'g'ng'f' q'y' "v'q't'gs w'gu'v'eq'r' k'gu'q'h' " c'0'cv'g't'k'cn'U'ch'g'v' "F'c'v' "Uj g'g'u.'c'p'f' "y'j cv'uv'gr u'v'q'v'c'ng' "hqt' "c'f'f' k'k'q'p'cn'lp'h'q'to c'v'k'p'0

V't'c'k'p'k'p'i "uj q'w'f' "c'ny' c'f' "u'd'g'y' g'm'f'q'ewo g'p'v'g'f'0C'v'c'o k'p'lo wo "j' c'x'g'c' "u'k'i' p'lp' "uj g'g'v'c'p'f' "c'p' "q'w'rk'p'g'q'h'v'j g'v'q'r' k'eu' " eq'x'g't'g'f'0D'g'uw't'g'v'q'i' k'x'g'go r m{ ggu'c'p' "q'r' r'q't'w'p'k'v' "v'q'cu'ni's w'gu'v'k'p'u'f' w't'k'p'i "v'j g'v't'c'k'p'k'p'i 0'k'i'c'p' "c'puy' gt' "v'q'c' " s'w'gu'v'k'p'ku'p'q'v'hp'q'y' p.'lp'f' l'ec'v'g'v'q'v'j g'i' t'q'w'r' "v'j cv'f' "q'w'y' k'ni'h'k'p'f' "v'j g'c'puy' gt' "c'p'f' "t'g'ur'q'p'f' "v'q'g'x'g't' "q'p'g'c'w'g'p'f' k'p'i 0

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## FIRE PROTECTION PLAN

## FIRE PROTECTION PLAN (29 CFR 1910.38)

C'hk g'r tqgvekp'r ncp'ku'uko krt'v'q'cp'go gti gpe{'cevkp'r ncp'y gtghqtg.'eqpukf gt'kpeqtr qtcvki 'y g'tgs vktgo gpw'qh'y g'y q' r ncpu'kp'v'q'c'ukpi ng'f qewo gpw'Vj g'r ncp'uj qwf'dg'lp'y tklpi '\*cnj qwi j 'QUI C'cmqy u'htq'c'uo cm'go r m'gt'gzgo r vqp' htqo 'c'y tkwgp'r ncp'+cpf. 'uj qwf'cv'c'o kpo wo. 'kpenf g'y g'hmqy kpi 'grgo gpw'<

30°C "kuv"qh"cp{ "o clqt "hkg" c| ctf u"cpf "y gk"r tqr gt"j cpf kpi "cpf "uqtci g0

400C"kuv"qh'r qvgpvkn'ki pklqp"uqwtegu"\*g0 0'y grf kpi ."uo qnkpi ."gve0"cpf "vj gk"eqpvtqn'r tqegf wtgu0'

50 **A** {r g' q' h' h' g' r' t q v g e' v k p' g s w k' o' g p v' q t' u' { u n g o' u' l' p' r' m e g' v' q' e' p p v' t q n' h' h' g u' . g' G' 0 h' k' g' g' z' k p i' w k u j' g t u' . ' u r' t k p m e t' " u' { u n g o' u' . g' v e' 0' }

60A co gu"qt"lqd"vngu"qt"go r nq{ ggu'tgur qpukdng"lqt"o ckpvgepeg"qh"gs wkr o gpv'cpf 'hktg'uwr r tguukqp"gs wkr o gpv0

70P co gu'qt'lqd'wngu'qh'go r m{ ggu'tgur qpukdng'hqt'eqpvtqn'qh'hwgn'uqwtg"] c| ctf u0'

80A qwugnggr kpi 'r tqegf wgu'tgi ctf kpi 'j g'eqpvtqni'qh'hj g'ceewo wv'vqp'qh'hro o cdng'cpf 'eqo dwukdng'y cug'o cvgtkcu'"  
" cpf'tgukf wgu0'

[ qw'bo wu'vtɕp' "{ qwt'go r nq' { ggu'qp' 'y ku'r nɕp'cu'y gn0F qxgvɕkɪ'j g'vtɕpɕpɪ 'qp' 'y ku'htg'r tqvgɕqp'r nɕp'y kɕj " { qwt'vtɕpɕpɪ " qp' 'y g'go gti gpe { 'cɕvqp'r nɕp0

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## FIRST AID

## **MEDICAL SERVICES AND FIRST AID (29 CFR 19190.151 AND 29 CFR 1926.50)**

C'm'go r m{ gtu'ctg'tgs wktgf "vq"j cxg'o gf kecnlgtxlegu'tgcf kx' "cxckrdrg0Vj ku'ecp'dg'r tqxkf gf "kp/j qwugt"t'd{ "c" pgctd{ "enple"qt"j qur kcn0K/ku'pqv'ergct"j qy "enrug"vj g'qwukf g'ugt xlegu'pggf "vq"dg"ceegr vdrng0QU C"f qgu'pqv' f ghkp\$pgct'r tqzko kx' \$"lp"vj ku'ucpf ctf 0K'j cu'dggp'uw i guwgf "vj cv'o gf kecnlgtxlegu'cxckrdrg"y kj kp'hqwt'o kpwgu' uj qwrf "o gg'vj g'tgs wktgo gpw'qh'vj ku'ucpf ctf "cpf "dg"ceegr vdrng"vq"QU C0"K'vj g'cdugpeg'qh'o gf kecnlgtxlegu'lp" enrug'r tqzko kx' . "go r m{ gtu'o wuv'j cxg'qp/ukg'cv'gcu'qpqg'r gtuqp'tclpgf "lp'htuv'ckf "vj tqwi j "c'tgr wcdrg"eqwtug" uwej "cu'vj g'Co gtkecp"tgf "Etquw"y j q'eqwrf "r tqxkf g'tgcv'o gpv'wpf gt "c'r j { ulekp}u'qtf gtu0Htuv'ckf "uw r rkgu'cu" f gvgto kpgf "d{ "vj g'eqpuwv'kpi "r j { ulekp"o wuv'cnug'dg"cxckrdrg0

C'tgeqo o gpf gf "hu'qh'hu'ckf"uwr r ngu'q"dg'o cf g'exckrdng'kp'y g'y qtnr negOVj g'eqpuwmp'i r j {ulekp'uj qwf"  
o cmg'y g'hpcnf gvgto kpcvqp"qh'uwr r ngu'o

F t w i u . " c p k u g r k e u . " g { g " k t k i c v k p " u q n w k p u . k p j c r c p w . " o g f k e k p g u . " u j q w r f " p q v d g k p e n f g f " k p " j g " k t u v c k f " m k w p r g u i " c r r t q x g f " d { " c " h e g p u g f " r j { u l e k p o ' }

Ft tpej "uj qy gtu'cpf "g{ g'y cuj gu'ctg'cnuq'o gpvqpgf "p'y ku'ucpf ctf 0QU C'ucwgu'y cvkh'go r m{ ggu'o c{ "dg" gqr qugf "vq"Seqtqulxg'o cvgtkcu.\$ft tpej "uj qy gtu'cpf "g{ g'y cuj gu'ctg'vq'dg'r tqxkf gf 0Vj ku'ku'c'o wuv'htq'y g'uj qr " y j gtg'y qtnly kj "hco o cdrg'uqrgpv'cpf "eqttqulxg'o cvgtkcu'ku'ucpf ctf "r tceveg0'

Neuɲf. 'k'ku'cf xkudɲg'v'j' cɣg'cm'pgeguuct { 'go gti gpe { 'pwo dgtu'r quɣf 'kp'c'eqpur lewqwu'mecvqp0'Vj ku'ku'c'  
tgs wkt go gpv'kp'j g'eqputwevqp'kp'f wux { 0'

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# HOUSEKEEPING

## HOUSEKEEPING (29 CFR 1910.22, 1910.176 & 1926.25)

J qwugnggr kpi 'ku'cpqj gt'lo r qtcvptgs vkt go gpv0

J qwugnggr kpi 'ku'o gpvqpgf 'kp'ugxgtcnf khtgpn'QUI C'tgi wvkvpu0Hqt'c'uj qr 'gpxktqpo gpv'yj g'tgs vkt go gpw' ctg'utcki j vhty ctf 0kp'i gpgten''{qw'o wuv'f q'yj g'hqmy kpi <

30'Cm'go r m{ o gpv'qecvkvpu'o wuv'dg'hgr v'Sengcp'cpf 'qtf gtn{ 'cpf 'kp'c'ucpkct{ 'eqpf kkp0\$"

40'Ar knu'o wuv'dg'r tqo r v{ 'engcpgf 'wr 0'O cu'uj qwf 'dg'r tqxf gf 'ctqwpf 'y gv'y qtm'ctgcu0""

50'Ap{ 'r tqvtf kpi 'qdlgeu.'uwej 'cu'pcku.'ur rpvgtu.'mqug'dqctf u'o wuv'dg'tgo qxgf 0'  
"

Eqputwvkv'ldukgu'cuq'j c'xg'j qwugnggr kpi 'tgs vkt go gpw0"Vj g'tgs vkt go gpw'ecp'dg'hqwpf 'kp'4; "  
EHI'3; 48047'cpf 'tgs vkt g'eqvtcevtu'vq<

30'Mggr 'cm'uetcr 'hwo dgt.'f gdtku'cpf 'hqt u'y kj 'pcku'engct'htqo 'yj g'y qtm'ctgcu.'r cuuci gy c{u.'uvtktu.'qt'kp"  
cp{ 'qj gt'ctgc'kp'qt'ctqwpf 'utwewtgu0'

40'Tgo qxg.'cv'tgi wrt'lpvgtxcnu.'eqo dwvkdrg'uetcr 'cpf 'f gdtku0'

50'Al c'xg'y c'ug'eqpvkpgtu'cv'yj g'ld'ukg0Vj g'eqpvkpgtu'o wuv'j c'xg'c'vqr 'kh'k'ku'vq'dg'wugf 'hqt'utqci g'qh"  
hco o cdrig'y c'ugv0l ctdci g'o wuv'dg'tgo qxgf 'htqo 'yj g'ukg'cv'tgi wrt'lpvgtxcnu0'



# PERSONAL PROTECTIVE EQUIPMENT

## PERSONAL PROTECTIVE EQUIPMENT (29 CFR 1910.132 AND 29 CFR 1926.28)

Rgtuqpcnr tqgevkg'gs wkr o gpv'v{ r kcm{ 'lpenmf gu'kgo u'uwej 'cu'tgur kcvqtu.'uchgv{ 'i mcuugu0hceg'uj kgrf u.'j ctf 'j cu." gve0Vj g'tgxkgf 'r gtuqpcnr tqgevkg'gs wkr o gpv'ucpf ctf 'cu'k'cr r rkgu'v' i gpgtcnl kpf wut { '\*ghgevkg'9171; 6+'tgs wkt gu" go r m{ gtu'vq<

30" Eqp f wev'cuuguuo gpw'qh'j c| ctf u'lp'v'j g'y qtnr nceg'v'j cv'o c{ 'tgs wkt g'v'j g'wug'qh'r gtuqpcnr tqgevkg'gs wkr o gpv' cpf 'egt vkh{ 'v'j cv'uwej 'cp'cuuguuo gpv'j cu'dggp'eqo r rvgf 0'

40ÁRtqxkf g'tcklpi 'q'go r m{ ggu'qp'kf gpvkh{ lpi 'y j gp'uwej 'gs wkr o gpv'ku'pgeguuct{ . 'j qy 'q'wug'v'j g'gs wkr o gpv' cpf 'j qy 'q'r tqr gtn{ 'ectg'hqt'cpf 'o ckvckp'v'j g'gs wkr o gpv'0'

50ÁO cng'egtckp'v'j cv'v'j g'gs wkr o gpv'ku'pqv'f co ci gf 'qt'f ghgevkg.'cpf "

60ÁRtqxkf g'tcklpi 'qh'go r m{ ggu'cu'pgeguuct{ 0'

Hqt'g zr quwtgu'y j kej 'hcm'wvf gt'v'j g'eqpwtwekqp'kpf wut { 'Ucpf ctf '\*3; 4804; +'v'j g'Ucpf ctf 'tgs wkt gu'v'j cv'y j gpgxgt" v'j gtg'ku'tgcuqp'q'dgdxg'cp'go r m{ gg'o c{ "gpeqwpvt'j c| ctf u'y j kej 'eqwrf'ecwug'kplwt{ 'cpf 'y j kej 'eqwrf'dg" r t x g p v g f 'd{ 'v'j g'wug'qh'r gtuqpcnr tqgevkg'gs wkr o gpv'v'j g'gs wkr o gpv'ku'v'q'dg'r tqxkf gf 0'



# ASBESTOS

## CHANGES TO OSHA ASBESTOS STANDARD FOR HANDLING INCIDENTAL ASBESTOS-CONTAINING ROOFING MATERIAL

PTEC"cpf "QUI C"j cxg"gpvgtgf "lpvq"e"ugwgo gpv'ci tgggo gpv'yj cv'ej cpi gf "qt'ertkhgf "rtqxkukqpu"qh'yj g"QUI C" Cudguvqu"Ucpf ctf "y j kej "y cu'kuwgf "qp"Cwi wuv"32."3; ; 60Qpg"qh'yj g'o clqt'tguwnkpi "ej cpi gu'ku'yj g'tgi wrcvkqp"qh' lpekf gpvcn'cudguvqu/eqpvcklpki "tqqhki "o cvgtkcn"CET33+."f ghkpgf "cu'lpcevtqqh'ego gpvu."o cu'ku."eqcvkpi u"qt" hrcuj kpi u0Qvj gt"v'r gu'qh'CETO ."uwej "cu'cudguvqu/eqpvcklpki "dwn/wr "tqqhki "cpf "cudguvqu/ego gpv'uj kpi ngu."ctg" tgi wrcvgf "cu'Encu"KKqr gtcvkqpu"cpf "ctg"uwldegv"q"o qtg"fgvckrgf "y qtnir tceveg."vtcklpki ."pqvhtecvkqp."

eqo o wplecvkqp"cpf "tgeqtf nggr kpi "tgs vktgo gpv0

Ego r rkepeg'tgs vktgo gpv'ht "lpvcmvkqp."tgo qxcn'tgr ckt "cpf "o clpvpcpeg"qh'lpekf gpvcn'CETO "j cxg'dggp"uecrgf " dcn'icpf "uko r rkhgf 0Hqt"j cpf rki "lpcevtlpekf gpvcn'CETO ."qpn "y j g'hqmy kpi "hkg'ugr u'o wuv'dg'cngp<

30ÁDghgtg'y qtnidgi kpu"cpf "cu'pggf gf "f wtkpi "y j g'lad."c"eqo r gvgpv'r gtupp"pggf u"v"eqpf wev'cp "kpu gevkqp"qh'yj g" y qtnukg"cpf "f gvgo kpg'yj cv'yj g'tqqhki "o cvgtkcn'ku'lpcevtcpf "y kn'hkngn "tgo clp"lpcevt0C"eqo r gvgpv'r gtupp."hqt" eqo r rkepeg'y kj "y ku'gevkqp."ku'qpg'y j q'ku'ecr cdrg"qh'kf gpvkh{ kpi "cudguvqu"j c| ctf u"lp"y j g'y qtnr nceg"cpf " ugrgevkpi "y j g'cr r tqr tlcvg"eqpvtqn'utcvgi { "hqt"cudguvqu"gzr quwtg."cpf "y j q"j cu'yj g'cwj qtkv{ "v"cngr"tgo r v' eqttgevkxg'o gcuwtgu"v"grko lpcvg"uwej "j c| ctf u0"Vj g'eqo r gvgpv'r gtupp'tgs vktgo gpv'ht "lpekf gpvcn'ctg"f khgtgpv' yj cp"y j qug'ht "Encu"KKgo qxcn."y j gtg'yj g'eqo r gvgpv'r gtupp"o wuv'i q"y j tqwi j "cp"GRC/crr tqxgf "uwr gtuluqt" vtcklpki "eqwtug."qt"gs wxcnrgp0"Cp"qwkpg"qh'yj g'vtcklpki "r tqi tco "hqt"eqo r gvgpv'r gtuppu0uwr gtukukqp"lpekf gpvcn' y qtniku'gperuqgf 0

40" Cm'go r m{ ggu'pggf "v"dg"vtckpgf "lp"ur gekh"ctgcu."cu'r tqxkf gf "lp"y j g'vtcklpki "r tqi tco "qwkpg"cnu'gperuqgf 40" Vj g'y qtngt "vtcklpki "tgs vktgo gpv'ht "lpekf gpvcn'ctg"f khgtgpv'htgo "y j qug'ht "Encu"KKgo qxcn."y j gtg'y qtngtu" o wuv'tgegkxg"cv'rgcu'gki j v'j qwtu"qh'vtcklpki 0

50' O cpwcn'o gjv qf u"y j cv'f q'pqv'tgpf gt"y j g'o cvgtkcn'pqp/lpcevt'o wuv'dg'wugf 0QUI C"u'f ghkpkqp"qh'pqp/lpcevt'ku' guugpvckm{ "y j g'uco g"cu"GRC"u'f ghkpkqp"qh'htcdrg0

60" lpekf gpvcn'CETO "ecppqv'dg"ftqr r gf "qt"y j tqy p"v"q"y j g'i tqwvf 0O cvgtkcn'o wuv'dg'ectghwm{ "mqy gtgf "v"y j g'i tqwvf " xlc"j qkv."etcpq."gperuqgf "ej wg."qt"dg"j cpf "ecttkgf "qt"r cuugf 0Cm'tgo qxgf "o cvgtkcn'o wuv'dg'tgo qxgf "htgo "y j g" tqqh'cu"uqpp"cu'r quukdg."dw'pq"rcvg"y j cp"y j g'gpf "qh'yj g'y qtniuj kn0

70Á Y j gp"lpvcmkpi "cudguvqu'r tqf wev"ug0 0'tqqh'ego gpv."o cu'ku."eqcvkpi u"qp"pqp/tgukf gpvcn'tqqhu."y j g'dwrf kpi " qy pgt "o wuv'dg'pqvhtgf "qh'yj g'r tgupeg"cpf "mqecvkqp"qh'yj gug"o cvgtkcn'pq"rcvg"y j cp"y j g'gpf "qh'yj g'lad0Vj ku" tgs vktgo gpv'ku'qpn "cr r rkecdrg"v"r tqf wev"y j cv'ctg"rcdrgf "cu'cudguvqu'eqpvcklpki 0KK'yj g'r tqf wev'ku'pqv'rcdrgf ." y j gtg'ku'pq"pqvhtecvkqp"tgs vktgo gpv0

Vj gug"ctg"cm'qh'yj g'tgs vktgo gpv'ht"j cpf rki "lpcevtlpekf gpvcn'CETO 0Vj gug'tgs vktgo gpv'j cxg'dggp"ghgevkxg"cpf " gphqtecdrg"ulpeg"Ln{ "32."3; ; 7."gzegr v'ht"vtcklpki ."Qvj gt'tgs vktgo gpv'cr r rkecdrg"v"Encu"KKgo qxcn'y qtni"ug0 0" tgi wrcvgf "ctgcu."ur gekh"y j qtnir tceveg"uwej "cu'y gwki ."gzr quwtg"cuuguu gpvu"ctg"pqv'cr r rkecdrg"v"y qtnikpxqkpi " lpekf gpvcn0

Tqqhki <Chgt"y j g'ucpf ctf "y cu'kuwgf ."y j g'P cvkqpnTqqhki "Eqpvtcevtu"Cuuqekvkqp"PTEC+"hkgf "c'r gvkkqp" y kj "QUI C"cu'kpi "y j cv'c'pwo dgt"qh'r tqxkukqpu"qh'yj g'ucpf ctf "dg"tgepukf gtgf "qt'ertkhgf "lpvht"cu'yj g{ "cr r rkgf " v"tqqhki "qr gtcvkqpu0Wr qp"gzco klpki "PTEC"u'r gvkkqp"lp"hi j v'qh'yj g'twgo cni "tgeqtf."QUI C"j cu'f gvgo kpgf " y j cv'egtckp"eqttgevkqpu"cpf "ertkhkcvkqpu"v"y j g'ucpf ctf "y qwf "gcug"eqo r rkepeg"dwf gpv'qp"tqqhki "eqpvtcevtu" cpf "cxqkf "etgevkpi "uchgv"j c| ctf u"y j kj qw'uki pkhkcpvn "lpetgculpi "y j g'co qwpv'qh'cudguvqu"v"y j kej "tqqhki "y qtngtu" ctg"gzr qugf 0QUI C"cu'f gvgo kpgf "y j cv'egtckp"eqttgevkqpu"cpf "lpvtr tgevkqpu"y j gtg'pggf gf "v"ertkh{ "y j g'ci gpe{ u" qtki kpcn'lpv'p'cu"v"y j g'o gcpkpi "qh'yj g'ucpf ctf 0QUITK0cu'f dgngxgu"y j cv'yj g'o g'kqtkquw'tgego o gpf cvkqpu"qh'yj g" r gvkkqp"ctg'r tqr gtn{ "tgr qpf gf "v"dl{ "y j g'hqmy kpi "eqttgevkqpu"cpf "ertkhkcvkqpu0



## ASBESTOS

## REMOVAL OF INTACT CEMENTS, COATINGS, MASTICS, AND FLASHINGS.

Vj g'qtiki kpcn'ucpf ctf 'encuukhgf 'cm'tgo qxcn'qh'cudguqu/eqpvcłkpi 'o cvgtkcn'htgo 'tqqhu'cu'Encu'KK  
qr gtcvqpu'Vj ki'encuukhccvqp'y cu'dcugf 'qp'QUJ C)'g'xcn'cvqp'qh'vj g'tkum'cuqekcvyf 'y kj '""tgo qxcn'  
htgo 'tqqhu'qh'cudguqu/eqpvcłkpi 'dwn/wr 'tqqhpi 'cpf'tgo qxcn'qh'cudguqu/ego gpv'\*C IE+uj kpi ngu'Uwej "  
lqdu'y gtg'cuuki pgf 'vj g'Encu'KK'guki pcvqp'dgecvwg'vj g'rti g's wcpv'qh'cudguqu/eqpvcłkpi 'o cvgtkcn'qp"  
uwej 'tqqhu'f'lcvcyf 'vj cv'ectg'j cf 'q'dg'cngp'q'cuuwtg'vj cv'uducpvcłkpi'pwo dgtu'qh'cudguqu'hdgtu'y gtg'pqv'  
tgrgcugf 'd'{'vj g'tgo qxcn'vgej pls wgu'wugf 'qt'd'{'vj g'o cpggt'lp'y j lej 'vj g'o cvgtkcn'y cu'j cpf ngf 'chgt'tgo qxcn'f

Qp"o cp{ 'tqqlu.'y g'uj kpi ngu'qt 'dwn/wr 'tqqh'kpi 'f q'pq'vcp'k'p'cudguqu'dw'cudguqu'ku'r tgu'p'v'k'p'y g'hqto " qh'ego g'p'u.'o cu'ku.'eqc'kpi u.'cpf 'h'cu'j kpi u'0"Vj gug'r tqf wew'ctg'p'q'v'y g'r tko ct{ 'tqqh'kpi 'o cvgt'k'ndw'ctg" v'r kcm' 'wug' hqt'r wtr qugu'uwej 'cu'y g'v'y gtr tqqh'kpi 'qr g'p'kpi u'qt'gf i gu'0"Hqt'gzco r rg.'qp'c'h'v'tqqh'y kj 'c" r cter g'v'ctqwpf 'y g'gf i g.'h'cu'j kpi 'y q'w'r 'dg'wug' 'v'q'ugcn'y g'ctgc'y j g'g'y g'dwn/wr 'tqqh'kpi 'o g'gu'v'y g" r cter g'0Y j gp'y g'q'p'n 'CEO 'qp'c'tqqh'ku'k'p'y g'hqto 'qh'ego g'p'u.'o cu'ku.'eqc'kpi u.'cpf 'h'cu'j kpi u.'y g" co q'wp'v'qh'cudguqu'r tgu'p'v'ku'o wej 'igu'u'y cp'y j gp'y g'o cl'p'tqqh'kpi 'o cvgt'k'nc'eqp'k'p'u'cudguqu.'cpf 'y g" r q'v'p'k'cn'hqt 'y q'tngt 'g'zr quwt'g'ku'eqt'tgur q'p'f kpi n' 'h'y gt'0Vj g'tg'ku'ukm'y g'r q'v'p'k'cn'hqt 'uki p'h'ec'p'v'h'dgt" t'g'g'cug'h'uwej 'o cvgt'k'cn'y' cxg'f'g'v't'k'q'c'v'g'f 'v'q'y g'r q'k'p'v'y j g'tg'y g'f 'ctg'p'q'h'p'i gt 'S'k'p'ce'v.\$'k'g'0'y j g'tg'g'k'y gt" d'gh'q'tg'qt 'f w'k'p'i 'tgo q'x'cn'y g'f 'et'wo drg.'ctg'r w'k'g't'k'f g'.'qt'q'y g'ty k'ug'd'ge'qo g'f'g'v't'k'q'c'v'g'f 'v'q'y g'r q'k'p'v'y j g'tg" y g'cudguqu'h'dgtu'ctg'p'q'h'p'i gt 'h'k'ng'f 'v'q'd'g'd'q'wp'f 'y kj 'y g'k' 'o c'v'k'z'0J q'y g'x'gt.'uwej 'o cvgt'k'cn'h'q'ug'y g'k' " y cv'g'r tqqh'kpi 'c'd'k'm'f.'cpf 'ctg'y g't'g'h'q'tg'w'w'cm'f 't'g'r m'eg'f.'d'gh'q'tg'y g'f 'j' cxg'f'g'v't'k'q'c'v'g'f 'v'q'y g'r q'k'p'v'y j g'tg" y g'f 'ctg'p'q'p'k'p'ce'0Vj wu.'k'p'y g'w'w'cn'ek'ewo u'c'p'eg'u'y j gp'uwej 'o cvgt'k'cn'ctg'k'p'ce'v'd'q'y 'd'gh'q'tg'cp'f 'f w'k'p'i " tgo q'x'cn'y g'r q'v'p'k'cn'hqt 'g'zr quwt'g'ku'h'y 'cpf 'y g'h'w'n'it'c'p'i g'q'h'r t'g'ec'w'k'p'u't'gs w'k'gf 'f w'k'p'i 'E'm'u'k'k'y q't'n'iku" p'q'v'p'g'g'f 'v'q'r t'q'g'ev'y q't'ng'tu'ci cl'p'u'g'z'eg'u'k'g'cudguqu'g'zr quwt'g'0'

Ceeqtfl kpi n. "QU C'ku'eqtgvekpi 'y g'ucpfctf 'q'r tqxkf g'y cv'tgo qxcn'qh'kpceve'go gpw'o cu'ku'eqcvekpi u.'cpf' " hruj kpi u'ku'pqv'Encu'KKY qtnOC'pgy 'rctci ter j " \*i +n3+'ku'dgkpi 'c'f f gf 'q'y g'eqpuwewekp'ucpfctf 'y cv'y kni' gzenwukxgn' i qxgtp'uwej 'tgo qxcn'cpf 'ku'kpvgpf gf 'q'ko r qug'qpn' c'hgy 'utcki j vhty ctf 'tgs wktgo gpw'cpf' " r tqj kdkkqpu'y cv'tghngev'y g'ho kgf 'cudguqu'gZR quwtg'r qvgpvcn'qh'uwej 'qr gtcv'kpucOCp'kf gpvecn'rctci ter j " \*i +s34+'ku'dgkpi 'c'f f gf 'q'y g'uj kr { ctf 'go r mq { o gpv'ucpfctf OWpf gt'rctci ter j " \*i +s33+'y g'o cvgtkcn'o wuv'pqv' dg'ucpf gf. 'cdctcf gf. 'qt' i tqwpf 'dw'o wuv'dg'tgo qxgf 'wukpi 'o cpwcn'o gyj qf u'yj cv'f q'pqvtgpf gt'y g'o cvgtkcn' pqp/kpcevOC cvgtkcn'y cv'y cu'dggp'tgo qxgf 'htqo 'c'tqqh'o wuv'pqv'dg'f tqr r gf 'qt'y tqy p'q'y g'i tqwpf 'cpf' o wuv' dg'tgo qxgf 'htqo 'y g'tqqh'd' 'y g'gpf 'qh'y g'y qtnluj kn'gkx gt'd' 'dgkpi 'ecttkgf 'qt'r cuugf 'q'y g'i tqwpf 'd' j cpf' " qt'd' 'dgkpi 'mqy gtgf 'q'y g'i tqwpf 'xkc'eqxgtgf. 'f wuv'ki j vej wg. 'etcpg'qt'j qkxOCRtkqt'q'y g'uctv'qh'y g'lqd. 'y g' o cvgtkcn'o wuv'dg'gzco kpgf 'd' 'c'eqo r ggpvr'gtuqp'q'f vgtgo kpg'y j gyj gt'k'ku'kpcev'cpf 'ku'hkngn' 'q'tgo clp' kpcev'y tqwi j qw'y g'lqdOCpf 'y g'go r mq { ggu'o wuv'dg'tc'kpgf 'kp'y g'j cl ctf u'qh'cudguqu'gZR quwtg'cpf 'y g' r tqr gt'y qtnlr tcevegucpf 'r tqj kdkkqpu'cr r ncedrg'q'uwej 'y qtnOC'k'y gug'eqpf kdkkqpu'ctg'pqv'o gv'y gp'y g'lqd' o wuv'dg'tgcygf 'cu'c'Encu'KKlqdO'

[illegible]



# ASBESTOS

Go r m{ ggu'y qtnkpi "qp"lqdu'eqxgtgf "d{ 'pgy 'r ctei tcr j "i +33+"cpf "pq"qy gt "lqdu'y cv'tg'eqxgtgf "d{ "y g" cudguvqu'ucpf ctf "ctg'pqv'wldlgev'q'y g'ur gekn'tclpki 'tgs vkt go gpw'hqt "Encu'KKKKqt "K"y qtnl' ur gekhgf "lp'r ctei tcr j "m\*, +33+0Y qtngtu"qp"lqdu'eqxgtgf "d{ 'pgy 'r ctei tcr j "i +33+"o wuv."j qy gxgt." dg'tclpki "lp'y g'hmqy kpi "qr leu"

## IDENTIFICATION AND RECOGNITION OF ASBESTOS-CONTAINING ROOFING MATERIALS

- Á K gpv'hecvkqp"qh'cudguvqu"
- Á Wugu'lp'tqqhki . 'r cuv'cpf 'r tguv"
- Á Ej ctcevgtku'qh'cudguvqu"
- Á Rqvgp'kcn'J gcnj "Gh'gewu'qh'cudguvqu"
- Á P cwtg'qh'cudguvqu'tgrv'gf "f kugcug. 'kpenw kpi 'trv'pge{ 'cpf "o gf kcn'v'guu'hqt "kf gpv'k kpi "cudguvqu" f kugcugu"
- Á Tqwg'u'qh'g'zr quwtg"
- Á F qug'tgur qpug'tgrv'kqpui k r u
- Á Tgrv'kqpui k "dgy ggp"eki ctgwg'uo qnkpi "cpf "cudguvqu"g'zr quwtg"cpf "cxckr'dk'k' "qh'uo qnkpi " egu'cvkqp'r tqi tco u"
- Á Hgf gtcn'QU C "Eqputw'kqp "Cudguvqu"Ucpf ctf ""
- Á Qxgtx'gy "qh'ucpf ctf "
- Á F k'ewu'kqp "qh'cngt'p'v'xg'o g'y qf u'hqt "j cpf kpi "lp'cev'cudguvqu'tqqh'eqcvkpi u."o cu'ku. "ego gpw."cpf " h'cu'j kpi u"
- Á F k'ewu'kqp "qh'Rgto ku'k'ng'G'zr quwtg'Nko ku'cpf "uki p'h'ecp'v't'kuni"
- Á K'p'cev'xgtu'w'P qp "K'p'cev'O cvgt'knu"
- Á F gh'p'k'k'qpui"
- Á J qy "q'tgeqi p'k' g'pqp"lp'cev'o cvgt'knu"
- Á Rtqegf w'gu'v'q'dg'h'mqy gf "y j gp"o cvgt'knu'ku'h'w'pf "qt "d'geqo gu'pqp"lp'cev"
- Á Crr'tqr'tk'v'g"Y qtnl'Rtcev'legu"
- Á Crr'n'kpi "o cu'ku. "ego gpw."eqcvkpi u"
- Á Ocpw'cn'o g'y qf u'hqt "tgo qxlkpi "o cvgt'knu""
- Á Engcp'w' "cpf "y cu'v'g'f'kur qucn'

Vj g'eqo r gvgp'r gtu'qpui y j q'lpur gev'lqdu'eqxgtgf "d{ 'pgy 'r ctei tcr j "i +33+"cpf "y j q'f q'pqv'w'gt'x'kug"qy gt "lqdu" y cv'tg'eqxgtgf "d{ "y g'cudguvqu'ucpf ctf . "ctg'pqv'wldlgev'q'y g'ur gekn'tclpki 'tgs vkt go gpw'hqt "Encu'KKKKqt "K"y qtnl'ur gekhgf "lp'r ctei tcr j "q+6+0Uwej "eqo r gvgp'r gtu'qpui "o wuv."j qy gxgt. "dg'hpqy ngf i g'cdng'lp'y g" h'mqy kpi "qr leu"lp'cf f k'k'qp"q'y g'cdq'xg"qr leu'eqxgtgf "lp'y qtngt "tclpki ="

- ÉÁ O g'y qf u'qh'F gyto k'kpi "Rt'gugpeg"qh'cudguvqu/Eqp'v'k'k'kpi "Tqqh'kpi "O cvgt'knu"
- ÉÁ W'pf gtu'ucpf kpi "cpf "K'p'v'g't'g'kpi "Ck' "O qp'k'q'k'kpi "F cvc"
- ÉÁ Uqo g'ucv'gu. "dw'kf kpi "qy pgtu. "gve0'tgs vkt g'ck'o qp'k'q'k'kpi "qp'cni'CEO "r tql'gewu"
- ÉÁ W'pf gtu'ucpf kpi "c'p'gi cv'xg"g'zr quwtg"cu'gu'uo gpv"
- ÉÁ P qv'hecvkqp "Tgs vkt go gpw'/"Eqo o gte'k'nl'k'f w'ut'k'ni'Y qtnl'Qpn' "



# ASBESTOS

kp'cf fklqp'v'g'zenwuk'gn' tgi wrcvpi 'y g'tgo qxcn'qh'lpcev'ego gvu'o cu'kuu.'eqcvpi u.'cpf'hcuj lpi u." rctci tcr j 'i +33+'cnuq'g'zenwuk'gn' tgi wrcvpi'g'lpucm'v'qp'qh'CEO'qp'tqqhu0Dgecwug'y g'wug'qh'o quv' cudguqu'r tqf weu'j cu'dggp'r j cugf'qww'y g'qpn' cudguqu/eqpvcplpi 'r tqf weu'ewt'g'pvn' d'gkpi 'lpucm'gf'qp' tqqhu'ctg'egtvcpl'ego gvu'o cu'kuu.'cpf'eqcvpi u0Vj gug'o cvgtkcn'ctg'lpucm'gf'lp'c'iks wlf'qt'ugo k'iks wlf' ucvg'lp'y j lej 'y g'cudguqu'hdgtu'ctg'gpecr uwrcvgf'lp'y g'dkwo lpqwu'qt'tgukpqu'dlpf gtu'wugf'lp'y gug' r tqf weu.'cpf'pgy 'rctci tcr j 'i +33+'y gtghqtg'f'qgu'pqv'tgs wltg'ur gekn'y qtnlr tcevegu'vq'r t'g'g'p'v'hdgt' tgrcug'f'wtkpi 'lpucm'v'qp0'kp'cf fklqp'v'g'y g'tgs wltgo gvu'y cv'cr r n' 'v'g'o qxcn'rctci tcr j 'i +33+' eqpvcplpi'c'p'q'v'hec'v'qp'tgs wltgo gvu'cr r n'cedng'v'pgy n' /lpucm'gf' r tqf weu0Y j gp'o cvgtkcn'hdgrgf'cu' eqpvcplpi 'cudguqu'r wtuwcpv'vq'rctci tcr j 'i +33+'q'h'y g'ucpf ctf 'ctg'lpucm'gf'qp'pqp/tgukf'gpvcn'tqqhu.'y g' eqpvcvqt'o wu'p'q'v'v' 'y g'dwrf lpi 'qy pgt'q'h'y g'r t'gugpeg'cpf'hc'v'v'qp'qh'y g'cudguqu/eqpvcplpi ' o cvgtkcn'0'Wpf gt'y g'ucpf ctf.'dwrf lpi 'qy pgt'u'o wu'dg'cy ctg'q'h'y g'r t'gugpeg'qh'CEO.'cpf'y ku' p'q'v'hec'v'qp'tgs wltgo gvu'y kni kxg'y g'dwrf lpi 'qy pgt'y g'lp'q'ho cv'qp'pggf'gf'v'q'hw'kn'y g'qy pgt'u' eqo r n'cepg'f'w'0Vj g'tgs wltgo gvu'ku'ho k'gf'v'q'lpucm'v'qp'qh'CEO'qp'pqp/tgukf'gpvcn'tqqhu'dgecwug' qy pgtu'qh'tgukf'gpvcn'f'y g'knpi u'ctg'v' r k'cm' 'p'q'v'go r n'q' gtu'wldge'v'v'g'y g'ucpf ctf'cpf'ctg'y gtghqtg'p'q' tgs wltg'f'v'q'o clpvcpl'tgeqtf'u'cdq'w'v'g'r t'gugpeg'qh'cudguqu'lp'v'v'g'lt'dwrf lpi u0

Dgecwug'y qtnlqp'lqdu'eqxgtg'f'd' 'pgy 'rctci tcr j 'i +33+'ku'p'q'v'Ernuu'K'Ernuu'KK'qt'Ernuu'KK'y qtm'uwej " y qtnlku'p'q'v'lp'ewf'gf'w'pf gt'rctci tcr j '3323'o +33+'lp'y g'f'g'v'to l'p'v'qp'qh'y j lej 'go r n'q' g'gu'ctg'eqxgtg'f' d' 'y g'o g'f'k'cn'w'x'g'k'p'eg'r t'q'x'k'k'p'u'qh'y g'ucpf ctf 'w'p'gu'f'wtkpi 'uwej 'lqdu'go r n'q' g'gu'ctg'g'zr qugf'cv' qt'cdq'x'g'y g'Vlo g'Y g'li j v'gf' C'xgtci g'VY C+'qt'gzewt'k'p'ho k'v'qt'y g'ct'p'gi cv'x'g'r t'gu'w'g't'g'ur k'c'v'q'u'0'kp' cf fklqp.'y g'lpucm'v'qp'qt'tgo qxcn'qh'lpcev'cudguqu/eqpvcplpi 'tqqh'eqcvpi u.'o cu'kuu.'ego gvu'cpf' hcuj lpi u'ctg'p'q'v'wldge'v'v'cp'f' r t'q'x'k'k'p'qh'y g'ucpf ctf 'q'y gt'y cp'pgy 'rctci tcr j 'i +33+'cu'q'pi 'cu'y g' o cvgtkcn'tgo clp'lpcev'cpf'y g'tgs wltgo gvu'qh'rctci tcr j 'i +33+'ctg'ucv'k'k'gf'0

QUJ C'P'q'v'u'y cv'o cvgtkcn'xgt'f' 'ulo k'rt'v'q'y g'g' 'l'p'ekf'gpvcn't'qqh'pi 'o cvgtkcn'ctg'wugf'ht'q'y gt' r wtr qugu'ht'gzco r ng.'cudguqu'lo r t'gi p'cv'gf'cur j cnle'y tcr 'ku'wugf'ht'r t'q'v'ev'qp'qh'w'pf gti tqw'pf'r kr gu0 QUJ C'tgi ctf u'tgo qxcn'qh'uwej 'lpcev'o cvgtkcn'cu'dgkpi 'i q'x'g't'p'gf'd' 'i +33+'q'h'y g'eqp'v'w'v'qp' uc'pf ctf 'j' +34+'q'h'y g'uj kr { ctf'go r n'q' o gvu'uc'pf ctf\_0

Vj g'eqttge'v'qp'u.'er'ct'k'hec'v'qp'u'cpf'lp'v'g't'r t'g'v'v'qp'u'y cv'ctg'f'k'uewugf'lp'y g'h'q'm'y lpi 'uge'v'qp'u'cr r n' 'v'q' tqqh'pi 'qr g'tc'v'qp'u'lp'y j lej 'cudguqu'ku'r t'gug'p'v'lp'y g'r t'ko ct'f' t'qqh'pi 'o cvgtkcn'cu'lp'y g'ecug'qh'dw'v'w'r " tqqh'pi 'DWT+'cpf'NC'uj lpi ng'tqqhu0

## USE OF WET METHODS AND RESPIRATORS DURING ROOF REMOVALS

Vj g'uc'pf ctf 'tgeqi pl'gu'y cv'y gv'o gv'y qf u'ctg'cp'lo r q't'cv'p'o g'cpu'qh'eqp'v'q'n'f'wtkpi 'cudguqu'tgo qxcn' qr g'tc'v'qp'u'0Y j gp'y g'w'v'hc'eg'qh'o cvgtkcn'dgkpi 'tgo q'x'gf'ku'y gv'u'qo g'cudguqu'hdgtu'y cv'y q'w'f' q'y gty k'ug'dg'tgrcugf'y j gp'y g'o cvgtkcn'ku'f'k'w'v'd'g'f'y kn'cf j g't'g'v'q'y g'iks wlf't'c'y gt'y cp'dgeqo g' c'k'd'q't'p'g'0Vj gtghqtg.'rctci tcr j 'i +33+'k'k'f' g'p'g't'cm'f' tgs wltgu'y cv'y gv'o gv'y qf u'dg'wugf'v'q'eqp'v'q'n'y q'tngt' g'zr quw'g'v'q'cudguqu'f'wtkpi 'tgo qxcn'cu'y gm'cu'q'y gt.'qr g'tc'v'qp'u'0J qy g'x'gt.'rctci tcr j 'i +33+'k'k'f' tgeqi pl'gu'y cv'y gv'o gv'y qf u'ctg'v'qo gv'o gu'lp'g'c'k'ud'ng'cpf'r t'q'x'k'f'gu'y cv'y gv'o gv'y qf u'p'g'gf'p'q'v'd'g'wugf' lp'uwej 'ek'ewo uc'pegu'0Q'p'g'uk'w'v'qp'lp'y j lej 'rctci tcr j 'i +33+'k'k'f'lp'f'k'ec'v'u'y cv'y gv'o gv'y qf u'o c'f' 'dg' lp'g'c'k'ud'ng'ku'y j gp'y g'f' 'y q'w'f'et'g'c'v'g'ur' r lpi 'j c' ctf u'f'wtkpi 'tqqh'pi 'y qtn0

Vj ku'tgh'gt'peg'v'q'ur' r lpi 'j c' ctf u'f'lp'tqqh'pi 'y qtn'y cu'lp'ewf'gf'lp'y g'uc'pf ctf 'dgecwug'c'p'wo dgt'qh' eqo o g'p'v'tu'g'zr t'gu'gf'eq'peg't'p'y cv'cp'w'p'eq'p'f'k'k'p'c'n't'gs wltgo gvu'v'q'wug'y gv'o gv'y qf u'eq'w'f'lp'et'g'cug' uch'v'f'j c' ctf u'cu'q'ek'c'v'f'y k'j 'tqqh'pi 'y qtn0'Ugg'7; 'H'f'c'v'63228-0Y g'w'kpi 'y g'w'v'hc'eg'qh'c'tqqh'ecp' o cng'y g'w'v'hc'eg'ur' r gt'f' 'cpf'lp'et'g'cug'y g'h'k'ng'y q'q'f'y cv'c'y q'tngt'eq'w'f'ur' r y j k'ng'y c'm'kpi 'qt'y qtn'kpi " qp'y g't'qqh'0Vj ku'y q'w'f'dg'r ct'k'ew'v'ctn'f'f'c'pi g't'q'w'u'qp'ur' g'f'tqqhu.'y j g't'g'c'ur' 'eq'w'f't'gu'w'v'lp'c'y q'tngt' h'cn'kpi 'q'h'y g'gf' i g'q'h'y g't'qqh'0QUJ C'tgeqi pl'gu'y cv'y g'r q'v'p'v'cn'ht'f'cn'kpi 't'qo 'c'tqqh'o cng'u'tqqh'pi " y qtn'j c' ctf q'w'g'x'gp'w'pf gt'y g'dgu'q'h'ek'ewo uc'pegu.'cpf'wug'qh'y gv'o gv'y qf u'y cv'o cng'y g'tqqh' w'v'hc'eg'ur' r gt'f' 'ecp'cf'f' 'u'ki p'h'ec'p'v'f'v'q'y cv'y c' ctf 0



# ASBESTOS

QUI C"dgngxgu"vj cv"vj g"r qvpgvknht"lpetgcugf"uchgv"j c| ctf u"y j gp"y gv"o gvj qf u"ctg"wguf"qp"unqr gf " tqqhu"l flevcgu"vj cv"y gv"o gvj qf u"lj qwf"pqv'dg"wguf"qp"unqr gf"tqqhu"wpnguu"vj gtg"ku"t gcrkule"lknghj qqf " yj cv"vj g"VY C"qt"gzewtukqp"lko k"y qwf"dg"gzeggf gf"lhy gv"o gvj qf u"ctg"pqv'wguf 0F cwc"lp"vj g'twgo cnkpi "tgeqtf " lpf lecvg"vj cv'gzeggf cpegu"qh"vj g"VY C"qt"gzewtukqp"lko k"y knlpqv'qeeuw"y j gp"y g"o cvgtkn'dgkpi "tgo qxgf"ku" lpxcev'cpf"vj g'y qtnlr tcevegu"ur gekhgf"lp"vj g'ucpf ctf"ctg"lqmqy gf"Ugg"7; "HT"cv'63227+0Ceeqtf lpi n" .vj g" ucpcf ctf"ku'dgkpi "co gpf gf"q"r tqxkf g"vj cv"y gv"o gvj qf u"ctg"pqv'tgs wktgf"qp"unqr gf"tqqhu"y j gp"y g"CEO"dgkpi " tgo qxgf"ku'lpxcev"0

Vy q'eqttegvkpu"q"vj g'ucpf ctf"ctg"dgkpi "o cf g"q"ghgewcvg"vj ku'lpxgpv0Rctci ter j "i +n+k+ku'dgkpi "eqttgevgf" vq"ucvg"vj cv"y gv"o gvj qf u'pggf"pqv'dg"wguf"fwtkpi "tqqhpi "y qtnly j gp"y g"ctg"pqv'tgs wktgf"wpf gt'r ctei ter j " i +: +k+0Cpf"r ctei ter j "i +: +k+D+"ku'dgkpi "eqttgevgf"q"r tqxkf g"vj cv"y gv"o gvj qf u'o wuv'dg"wguf"q"tgo qxg" tqqhpi "o cvgtknu"vj cv'ctg"pqv'lpxcev'qt"vj cv"y knldg'tgpf gtgf"pqv'lpxcev'fwtkpi "tgo qxcn'wpnguu"y gv"o gvj qf u"ctg" pqv'hgcukdn"qt"y knletgcvg"uchgv"j c| ctf u0Cu"co gpf gf .r ctei ter j "i +n+k+o cngu'engct"vj cv'tqqhpi "o cvgtknu" ctg"qpn"uwlgevg"q"tgs wktgo gpvu'hqt"y gv"o gvj qf u"vj cv'ctg"gzr rlekn"eqpvckpgf"lp"r ctei ter j "i +: +k+0Vj gtg"ctg" vy q'uwej "tgs wktgo gpvu0Hktuv"r ctei ter j "i +: +k+D+cu"co gpf gf"d{ "y ku'pqv'eg"tgc'kpu"vj g'tgs wktgo gpv'hqt"wg" qh"y gv"o gvj qf u"q"tgo qxg'pqp/lpxcev'o cvgtkn'wpnguu"vj g'eqo r gvgpv'r gtuqp"fgvto lpgu"vj cv"y gwkpi "y g'o cvgtkn" ku'pqv'hgcukdn"qt"y qwf"etgcvg"c"uchgv"j c| ctf 0Ugeqpf .r ctei ter j "i +U+k+E+tgs wktgu"vj cv'ewwki "o cej lpgu'dg" eqpvkpwqun"o kngf"fwtkpi "wug"wpnguu"c'eqo r gvgpv'r gtuqp"fgvto lpgu"vj cv'o knkpi "uwducpvkcn"fgtgcugu" y qtngt"uchgv"0Cu'ewwki "o cej lpgu'ctg"qpn"wguf"lp"vj g'tgo qxcn'qh'dwkn/wr"tqqhpi .y j kej"ku'pqv'hqwpf"qp" unqr gf"tqqhu"y j gp"y g'ucpf ctf"fgu'pqv'tgs wktgf"y g'wug"qh"y gv"o gvj qf u"qp"unqr gf"tqqhu"y j gp"y g'o cvgtkn'dgkpi " tgo qxgf"ku'lpxcev"

Y j gp"y gv"o gvj qf u"ctg"pqv'wguf .vj g'lpetgcugf"r qvpgvknht"ckdqtpg"cuvguqu"o c{ "f lecvg"vj g'pggf"lqt" qvj gt'r tgecwkpku"uwej"cu'tgur kcvqt"wg0Rctci ter j "j +3+k+ku"cu'qtki kpcn"y tkwgp"tgs wktgf"wg"qh"4ur kcvqtu" fwtkpi "cnl'Ernuu"Kcpf"Ernuu"KKy qtnly cv"y cu'pqv'r gthqto gf"wkpi "y gv"o gvj qf u"y kj qw'tgi ctf"q"cewen'qt" cpv'ekr cvgf"gzr quwtg"hxgn0J qy gxgt"tgur kcvqt"wg"ecp"cnq"lpetgcug"vj g'uchgv"j c| ctf u"cuuqekcvgf"y kj"tqqhpi " y qtnld{ "lko knkpi "y qtngtu"xkukdkn"cpf"o qdkn"0"O qtgqxt"tqqhpi "y qtnlku"uqo gv'o gu'f qpg"lp"j qv'y gcvj gt." y j kej"ecp"cf f"q"y g'f kuego hqt'cuuqekcvgf"y kj"tgur kcvqt"wg0Tgur kcvqt"wg"o c{ "cnq"lpetgcug"vj g'tknu"vj cv" tqqhpi "y qtngtu'r gthqto lpi "y g'qhvgp"r j { uecn"fgo cpf lpi "rdqt"tgs wktgf"qh"y go "fwtkpi "j qv'y gcvj gt"y kn" uwlht"j gcv'utgu0QUI C"dgngxgu"vj cv"vj g'f tcy dcem"qh'tgur kcvqt"wg"qp"tqqhu"y qwf"hgcf"o cp{ "tqqhpi " eqpv'cevqtu"q"wg"y gv"o gvj qf u"t'cvj gt""y cp"tgur kcvqtu"qp"unqr gf"tqqhu"l'h'qpg"qt"y g'qvj gt"ku'tgs wktgf 0Vj gtghqtg." c'tgs wktgo gpv'vj cv'gkj gt"tgur kcvqtu"qt"y gv"o gvj qf u'dg"wguf"y qwf"hgcf"q"lpetgcugf"wg"qh"y gv"o gvj qf u"qp" unqr gf"tqqhu"y kj"cp"cwgpf cpv'lpetgcug"lp"urk r lpi "cpf"lcnkpi "j c| ctf u0

QUI C"ku'tgmecpv"q"lpenf g"tgs wktgo gpv'lp"vj g'ucpf ctf"vj cv'eqwf"lpetgcug"uchgv"j c| ctf u'fwtkpi "tqqhpi " y qtnl'wpnguu"uwej"c'tgs wktgo gpv'ku'engctn"pggf gf"q"cxqkf"qxgtgzr qukpi "y qtngtu"q"ckdqtpg"cuvguqu0Cu'pqvgf" cdqyg"gxkf gpeg"lp"vj g'twgo cnkpi "tgeqtf"lpf lecvg"vj cv'cuvguqu"hxgn"y knlpqv'gzeggf"vj g"VY C"qt"gzewtukqp" lko k"y j gp"lpxcev'tqqhpi "o cvgtkn'ku'tgo qxgf"wkpi "r tqrgt"y qtnlr tcevegu"gxgp"y j gp"y gv"o gvj qf u"ctg"pqv'wguf 0Hqt"y g'tgcuppu"fwkewuuf"gctnltg."QUI C"j cu"vj gtghqtg"eqpenf gf"vj cv"y gv"o gvj qf u'lj qwf"pqv'dg"tgs wktgf" fwtkpi "uwej"tgo qxcn0QUI C"lwtvj gt"eqpenf gu"vj cv'go r m{ gtu"lj qwf"pqv'dg"lqtegf"q"ej qqug'dgy ggp"y gv" o gvj qf u'cpf"tgur kcvqtu'dgecwug"uwej"c'ej qleg"y qwf"wpf qwdvgf n"hgcf"q"wg"qh"y gv"o gvj qf u'lp"o cp{ "ecugu" cpf ."gxgp"y j gtg'tgur kcvqtu'ctg"ugngvgf ."tqqhpi "y qtngtu"y qwf"dg"gzr qugf"q"lpetgcugf"uchgv"j c| ctf u0 Ceeqtf lpi n" .r ctei ter j "j +n+k+ku'dgkpi "eqttgevgf"q"r tqxkf g"vj cv'gxgp"y j gp"y gv"o gvj qf u"ctg"pqv'wguf"qp" unqr gf"tqqhu0Tgur kcvqtu'pggf""pqv'dg"y qtp"y j gp"c"pgi cv'xg"gzr quwtg"cuuguo gpv'j cu'dggp"o cf g'cpf"vj g"CEO" ku'tgo qxgf"lp"cp"lpxcev'ucvg0

## LOWERING REMOVED MATERIAL TO THE GROUND

Qpeg"cuvguqu/eqpvckkpi "tqqhpi "o cvgtkn"j cu'dggp"ugr ctcvgf"lqo "y g'tqqh"lko wuv'dg"lqy gtgf"q"y g'i tqwfp" hqt"l kur qucn0Rtqr gt"j cpf kpi "qh"y g'o cvgtkn"dqy"qp"y g'tqqh'cpf"qp"y g'i tqwfp ."ku'pggf gf"q"



tgf weg'y j g'tgrcug'qh'cudguqu'hdgtu0''Gxgp'y j gp'yj g'o cvgtkcn'lu'kpcev.'y g'rcti g'swcpv'qh'o cvgtkcn'  
y cv'o wu'dg'o qxgf'htqo 'y g'tqah'yq'y g'i tqwpf'f wtkpi 'c'Eruc'KKqqh'tgo qxcrlqd'f levcgu'y cv'ectg'dg" "  
wugf'lp'y j g'f kur qucn'qr gtcv'kpu0'Cpf'y j gp'o cvgtkcn'lu'pqp/kpcev.'y g'r qvgp'cn'htq'tgrcug'qh'rcti g'  
pwo dgtu'qh'cudguqu'hdgtu'f wtkpi 'f kur qucn'qr gtcv'kpu'tgs vkt gu'cf f kkp'cn'r tgecv'kpu0'

Cu'qtki kpmf 'y tkwgp. 'r ctei ter j 'i +: +k+G+ 'tgs wktgf 'y cv'cp{ 'CEO 'tgo qxgf 'htqo 'c'tqqh'gkj gt'dg' ko o gf kcvn' 'hry gtgf 'vq' 'y g'i tqwpf 'xlc'eqxgtgf. 'f wuv'ki j v'ej wg. 'etcp'g'qt'j' qkuv'qt'gng'dg'r'ncgf 'lp'cp' ko r gto gdcng'y cuvg'dci 'qt'y ter r gf 'lp'r'ncv'uj ggv'kpi 'cpf 'hry gtgf 'vq' 'y g'i tqwpf 'pq'rcvt'y cp'y'j g'gpf "qh'y g'y qtm'uj kMOD{ 'qxgtuk j v. 'pq'f'kuv'ekvp'y cu'o cf g'dgw ggp 'lp'cev'cpf 'pqp/p'lp'cev'o cvgtkcn' 'Vq'eqttgev' y ku'qxgtuk j v. 'QU C'ku'ertkh'kpi 'y g'y ter r kpi 'qt'dci i kpi 'tgs wktgo gpv'qh'r ctei ter j 'i +: +k+G+'lp'y g' ecug'qh'lp'cev'tqhkpi o' cvgtkcn'Cu'hupi 'cu'y g'o cvgtkcn'ku'hry gtgf 'vq' 'y g'i tqwpf 'pq'rcvt'y cp'y'j g'gpf 'qh'y g' y qtm'uj kx'y'j g'go r m'j gt'ku'p'q'kpi gt'tgs wktgf 'vq' 'y ter 'qt'dci 'lp'cev'o cvgtkcn'y j kg'y'j g'o cvgtkcn'tgo kpu'qp' y g'tqqh0'Y ter r kpi 'qt'dci i kpi 'qh'lp'cev'o cvgtkcn'ku'kper r tqr tlc'g'hqt'y q't'gcu'pu0'hkuv'y ter r kpi 'qt' dci i kpi 'tgs wktgu'cf f k'k'p'cn'y cpf kpi 'qh'y'j g'o cvgtkcn'cpf 'eqwf 'lp'etgcug'y'j k'k'ng'y q'qf 'qh'cudgu'qu'h'dgt' t'ng'cug. 'r ct'v'w'rcn' 'lp'y'j g'ecug'qh'rci g'ugev'kpu'qh'd'w'w'w' 'tqqh'kpi. 'y j lej 'ecp'dg'f'k'h'w'w'v'y'j ter 'qt'dci 0' Ugeqpf. 'y ter r kpi 'qt'dci i kpi 'lp'etgcugu'y'j g'ko g'tgs wktgf 'hqt'y'j g'lqd'cpf 'y qwf 'y'j gtd'f' 'lp'etgcug'y'j g'ko g' f wtkpi 'y j lej 'y qtn'gtu'ctg'g'zr qugf 'vq' 'y'j g'uch'v'f'j c' ctf u'cu'qek'cv'f'y'j k'j 'tqqh'kpi 'y qtn'0'QU C'd'ng'x'gu'y'j cv.' y j gp'CEO 'y'j cv'j cu'dggp'tgo qxgf 'htqo 'c'tqqh'ku'lp'cev'y'j g'tg'ku'h'w'ng'r q'v'p'v'cn'hqt'h'dgt't'ng'cug'kh'y'j g' o cvgtkcn'tgo kpu'wpf ku'wtdgf 'qp'y'j g'tqqh'hqt'c'uj qtv'ko g'0'

Hqt'pqp/kpcev'o cvgtkn'j qy gxgt.'yj g'r qvwpkn/hqt'uki pkhlecpv'hldgt'tgrgcug'tgs wktgu'uqo g'o gcpu'qh'  
r tqvgevqp'kh'y g'o cvgtkniku'pqv'ko o gf kcvn' hmy gtgf 'vq'y g'i tqwpf 0'Vq'o kpo k g'hldgt'tgrgcug'lt qo "  
ppp/kpcev'o cvgtkn'y j kg'kv'tgo clpu'qp'y g" tqqh'r ctc i ter j " \*i +\*: +k+G+tgs wktgu'y cv'uwej 'o cvgtkn'gkj gt"  
dg'ngr v'y gv'y ter r gf . "qt'dci i gf 'kh'y g'o cvgtkniku'pqv'ko o gf kcvn' hmy gtgf 'vq'y g'i tqwpf 0'Vj g'qr vkp'vq"  
nggr 'yj g'o cvgtkn'y gv'y cu'pqv'cxckrdrg'wpgt'y j g'atki kpcl'xgtukap'qh'y g'ucpf ctf 0J qy gxgt.'nggr kpi 'yj g"  
o cvgtkn'y gv'y kn'o kpo k g'hldgt'tgrgcug'cpf 'y kn'cxqlf 'yj g'pggf 'yj g'cf f klkpcn'j cpf npi 'tgs wktgf 'y j gp'y g"  
o cvgtkniku'y ter r gf "qt'dci i gf 0Cnj qwi j "Xgwkipi 'o c{ 'uqo gwko gu'pqv'dg'hgcukdrg.'yj gtg'ku'pq'tgcuaq'pqv'vq"  
cmqy 'ku'wug'cu'cp'cngtpcv'xg'vq'y ter r kpi "qt'dci i kpi 'kp'y qug'ukwcvkpu'y j gtg'kv'ku'hgcukdrg'

Cu'eqtggevfg.'rctci terj "i +: +k\*G+cmqy u'o cvgtkcn'v"dg'ecttkgf "qt'r cuugf "v'v' g'i tqwpf "d{ "j cpf "cu'cp" cngtpcvkxg'v"dgkpi "mqy gtgf "d{ 'o gpcu'qh'c'f wuv'ki j v'ej wg. 'etcpq'qt'j qkuv'Vj ku'i kxgu'go r mq {gtu'cf f kxqpen' hgzkdktv' "lp'ukwcvkpu'y j gtg'o cpwcn'mqy gtkpi 'ku'hgcukdng'0'Hqt'gzco r ng. 'uqo g'tqqh'kpi 'lqdu'"o c{ 'kpxqkxg" tgo qxcn'qh'co qwpw'qh'CEO uwhkkgv'v' 'uo cm'v' cv'v' g'o quv'hgcukdng'o gvj qf "qh'mqy gtkpi 'v' g'o cvgtkcn'v'v' g" i tqwpf 'o c{ 'dg'v'v' cxg'k'ecttkgf "qh'h'v' g'tqqh'd{ 'c'y qtngt'0Cmq. 'y j gtg'v'v' g'tqqh'ku'pqv'v'v'v' k j "qh'h'v' g" i tqwpf. 'k'o c{ 'dg'hgcukdng'v'v' cuu'v' g'o cvgtkcn'v'v' g'i tqwpf 'htqo 'j cpf 'v'v' cpf 0Cu'hqpi 'cu'v' g'o cvgtkcn'ku' pqv'f tqr r gf "qt'v'v' tqy p'v'v' g'i tqwpf. 'QUJ C'f'qgu'pqv'y kuj "v'v' r taj kdk'wug'qh'mqy gtkpi 'o gvj qf u'v'v' cv'f q'pqv' i kxg'tkug'v'v' g'r qvcpv'cn'htq'uki pkhkcpv'hkdg't'grgcug'0'

Vy q'gej plec'ico gpf o gpw'f gcn'pi 'y kj 'f'kur qucn'qh'cudguvqu/eqpvcl'kpi 'tqql'kpi 'o cvgt'kcn'ctg'cnuq'dgl'kpi " o cf goRctci tcr j \*3+\*4+. 'y g'i gpgtcn'r tqxluk'p'ht 'f'kur quk'pi 'qh'cudguvqu'y cug. 'ku'dgl'kpi 'eqttgevgf 'v'ucvg" gzn'ekn' 'y cv'y g'ur gek'le'tgs wktgo gpw'ht 'f'kur qucn'qh'tqqh'kpi 'y cug'lp'r ctei tcr j \*i +\*+ \*kk+ 'err n' 'lp'ngw'qh' 'y g'i gpgtcn'tgs wktgo gpv'qh'r ctei tcr j \*3+\*4+OCpf 'r ctei tcr j \*i +\*n+\*kk+. 'y j lej 'i gpgtcn' 'tgs wktgu'r tqo r v' engcp/wr 'cpf 'f'kur qucn'qh'cudguvqu'y cug'cpf 'f'gdt'ku'lp'rgcn'w'k j v'eqpvcl'pgtu. 'ku'uko kctn' 'dgl'kpi 'eqttgevgf 'v' ucvg'v' cv'y g'ur gek'le'r tqxluk'p'ht 'engcp/wr 'cpf 'f'kur qucn'qh'tqqh'kpi 'y cug'lp'r 'r ctei tcr j \*i +\*+ \*kk+ 'ctg' gzen'ul'xg'O'V'y wu. 'f'kur qucn'qh'tqqh'kpi 'y cug'ku' i qxgt'pgf 'gzen'ul'xgn' 'd' { 'r ctei tcr j \*i +\*+ \*kk+ 'G+. 'y j lej 'j cu' dggp'f'kuewugf 'cdqxg. 'cpf 'r ctei tcr j \*i +\*+ \*kk+ 'H+. 'y j lej 'tgs wktgu'y cv'qpeg'tqqh'kpi 'o cvgt'kcn' cu'dggp' m'y gt'gf 'v'q'v' g'i tqwpf. 'wpy tcr r gf 'o cvgt'kcn'uj cni'dg'v'cpuh'gt'gf 'v'q'c'enugf 'tgegr xcng'lp'c' o cpggt 'y cv'y kn' r tgen'f g'y g'f'kur gtuk'p'qh'f wuO'

## CLEAN UP OF DUST AND DEBRIS

Vj g'wcpf ctf "eqpvckpu"ugxgtcn'tgs wkt go gpw'cko gf "cv'cuuwtkpi 'vj cv'cudguqu/eqpvckpkpi 'f wuv'cpf 'f gdtku'ctg" ergcpgf 'w'lp'c'o cppgt 'vj cv'o lpko k gu'y qtngt "gxr quwtg0Rctci ter j %i +n+k'tgs wkt gu'y cv/J GRC'xcewwo u" dg'wugf "q'eqmgev'cnlf wuv'cpf 'f gdtku'eqpvckpkpi 'CEO'qt "RCEO 0Vj g'i gpgtcn'r tqxkukp'hq't wug0\$qh'y gv" o gvj qf u'lp'r ctcic ter j %i +n+k'cr r ngu'f wtkpi 'ergcpw'r qrgtcv'qu0"Cpf 'ft{ 'uy ggr lpi . 'uj qxgnpi . "qt'qvj gt'ft{ " ergcp/w'r "o gvj qf u'ctg'r tqj kdgf 'd{ 'r ctcic ter j %i +5+k'0



# ASBESTOS

Y j gp "c"tqqh"ku"vq"dg"tgo qxgf. "y j gtg"ku"qhwgpf "f wuv"cpf "f gdtku"qp"vj g"tqqh"vj cv"j cu"tguwngf "Itqo "y j g"tqqh"u"gzr quwtg"vq" y j g" grgo gpw" qxgt "c" mpi "r gtlqf" qh" vko g0 Vj g" uwpf ctf "f qgu" pqv" tgs wktg" J GRC "xcewwo kpi "qh" uwej "i gpgtcn" gp xtkqpo gpvcn"eqpwo kpcvqp"dg hqtg"tqqh"tgo qxcn"y qtn"dg i kpu"qt "f wtkpi "uwej "y qtn0 J GRC "xcewwo kpi "qh" f wuv"cpf " f gdtku"ku"qp" tgs wktg "kh"vj gtg"ku"cp"lpf kcvkqp"vj cv"pqp/lpcev"CEO "ku"vj g"uqwtg"qh"vj g" f wuv"cpf "f gdtku"Uko kctn. "kh" c" tqqh kpi "eqpvtcevq"t f qgu"engcp"wr "gp xtkqpo gpvcn" f wuv"cpf "f gdtku"vj cv"ku"pqv"cuuqekvgf "y kj "pqp/lpcev"CEO "dg hqtg"qt " f wtkpi "c"tqqh"tgo qxcn"lqd. "y j g"uwpf ctf "u"r tqj kdkkqp"qp" wug"qh" f t { "engcp"wr "o gyj qf u"t qgu"pqv"cr r n0

Y j gp "c"r qy gt"tqqh"ewwgt "ku" wugf "vq"tgo qxg"dwkn"wr "tqqh kpi. "y j g" f wuv"tguwngf "Itqo "y j g"ew"ku"pqp/lpcev"CEO. "cpf " y j g"uwpf ctf "tgs wktg"vj cv"vj g" f wuv"dg"vj qtqwi j n { "cpf "cr r tqr tlcvg" { "engcpgf "wr 0" Tcvj gt"vj cp"tgs wtkpi "y j cv"uwej "f wuv" cry c { u"dg" J GRC "xcewwo gf. "r ctc i tcr j "i +: +k+ F +ku"dgkpi "eqttgevgf "vq" i kxg"go r m { gtu"cf f kkpvcn"hz kdkk" { "y j gp" y j g" f wuv"ep"dg"tgo qxgf "d { "qy j gt"o gcpu"vj cv"r t g xgpv"ku" Itqo "dgeqo kpi "cktdqtpg0 Y j gp"dwkn"wr "tqqh kpi "ku"tgo qxgf " Itqo "c"uo qqj /uwt hceg"tqqh"U0 "c"pqp/ci i tgi cvg"dwkn"wr "tqqh"r ctc i tcr j "i +: +k+ F +pqy "r gto ku"go r m { gtu. "cu" cp"cngtpcvkg"vq" J GRC "xcewwo kpi "vq" i gpw" { "uy ggr "cpf "y j gp"ectghwm" { "cpf "y j qtqwi j n { "y j k r g"wr "y j g"ukm"y gv" f wuv"cpf " f gdtku" i gpgtcvg "d { "y j g"tqqh"ewwgt "cpf "ghn"cmppi "y j g"ew"ku"pqp/lpcev"CEO "cu"vj g" f wuv"ku"eqo r ngvg" { "y j k r g"wr "y j k r g"ku" y gv" y j ku"o gyj qf "y j km"cuwng"vj cv"vj g" f wuv"ku" f kur qugf "qh" y kj qw"dgeqo kpi "cktdqtpg0 J qy gxgt. "y j gtg"vj g"dwkn"wr " tqqh kpi "j cu"cp"ci i tgi cvg"uwt hceg. "uy ggr kpi "cpf "y j k r kpi "qh" y j g" f wuv" i gpgtcvg "d { "y j g"tqqh"ewwgt "ku"pqv"cp"ghgevg" " cngtpcvkg"dgecwug"uqo g" f wuv"y km"tgo clp"lp" y j g"etcem"cpf "etgxcuugu"qh" y j g"ci i tgi cvg"uwt hceg0 Vj gtghqtg. J GRC " xcewwo kpi "ku"ukn"tgs wktg f "lp" y j ku"ukwcvkqp0

C"eqttgevg kpi "co gpf o gpv"ku"dgkpi "o cf g"vq"r ctc i tcr j "i +: +k+ F +y j g" i gpgtcn"r tqxkukqp"tgs wtkpi "J GRC "xcewwo kpi "qh" f wuv"cpf "f gdtku. "vq" cempqy ngf i g" y j cv"r ctc i tcr j "i +: +k+ F +eqpvc kpu"cp"gzegr vq"vq" y j g. "tgs wktgo gpv"htq" J GRC " xcewwo kpi "qh" f wuv"cpf "f gdtku"lp" y j g"ecug"qh"tgo qxcn"qh"dwkn"wr "tqqh"u"tgo "uo qqj "dcugu0 Vj g"co gpf o gpv"vq" r ctc i tcr j "i +: +k+ F +f qgu"pqv"chgevg" y j g" i gpgtcn"tgs wktgo gpv"vj cv" f wuv"cpf "f gdtku"cuuqekvgf "y kj "pqp/lpcev"tqqh kpi " o cvgtcn"dg" J GRC "xcewwo gf 0

## SMALL REMOVAL AND REPAIR JOBS

Dghqtg" c"tqqh"j cu"tgej gf "y j g"gp" qh"ku" wugw"l"dg"cpf "o wuv"dg"tgr rcegf. "k"ecp" f gxgnr "ngcm" y j cv"o wuv"dg"tgr clt gf 0 Y j gp"qp" c"uo cni"ctgc"qh"cp"cu dguvq/eqpvc kpi "tqqh"ku" f kuw"dgf "f wtkpi "c"tgo qxcn"lq"tgr clt "lqd. "y j g"r qvgpvkcn"htq" " g z r quwtg"ku"o wej "h y j gt" y j cp"htq" c"eqo r ngvg"tqqh"tgo qxcn"lqd. "cpf "cni"qh" y j g"r tgecvkqp"tgs wktg f "htq" "Encuu"KKq"t"KK tqqh"tgo qxcn"lqdu"ctg"pqv"pggf gf 0 K" y qwf. "htq"gzco r ng. "dg"wp pgeguuctn { "dwf gpuqo g"vq"tgs wktg" c" J GRC "xcewwo "vq" dg"t"ngf "vq" c"tqqh"cp" f eqppgevgf "vq" c"r quukn { "f kuvcv"uqwtg"qh" gngv"tke" { "kh"qp" c"pgi rki kdr"co qwpv"qh" f wuv"o wuv"dg" eqngvgf 0 Ceeqtf kpi n { "c"pgy "r ctc i tcr j "i +: +k+ F +ku"dgkpi "r tqo wi cvg" "vq" r tqxkf g" y j cv"tgo qxcn"lq"tgr clt "qh" lpcev"tqqh kpi "nguu" y j cp"47"us wctg"hgvg"lp"ctgc" f qgu"pqv"tgs wktg" wug"qh" y j gv"o gyj qf u"qt" J GRC "xcewwo kpi "cu"mipi "cu" o cpwcn"o gyj qf u"y j lej "f q"pqv"tgp f gt "y j g"o cvgtcn"pqp/lpcev"ctg" wugf "cpf "pq" xkukdr" f wuv"ku"etgcvg f 0 D { "tgs wtkpi " y j cv"j cpf "o gyj qf u"dg" wugf "cpf "pq" xkukdr" f wuv"vq"tgrgcugf. "y j g"gzegr vq"p"ku"rko kgr "vq" ukwcvkqp" y j gtg" y j g" y qtniku" f qpg"lp" c"o cpgt" y j cv" f qgu"pqv"tgrgcug"uki pkk"ecpv"pwo dgtu"qh"cu dguvq" hkdgtu00 qtgxgt. "QU C"dgngxgu" y j cv" y j g"47" us wctg" hqqv"hi wgt. "y j lej "tgr tguvpw" c"7/hqqu"us wctg"ctgc. "tgr tguvpw" c"tgcupcdrg"ewqhh"dgw ggp"uo cni"tgr clt "lqdu" y j cv" f q"pqv"tgs wktg" y j g" hwn"t cpi g"qh"r tqvgv kqp"cpf "rcti gt "lqdu" y j cv"r tguvpv" y j g"r qvgpvkcn"htq"uki pkk"ecpv"gzr quwtgu0

Rctci tcr J "i +: +k+ F +ku"mcevgf "lp" c"ugev kqp"qh" y j g"uwpf ctf "y j cv"cf f tguugu"o gyj qf u"qh"eqo r r kcepg"htq" "Encuu"KK y qtn0 J qy gxgt. "c"lqd" y j cv" s wcn"htgu"htq" y j g"gzegr vq"p"cnq" f qgu"pqv"tgs wktg" wug"qh" y j gv"o gyj qf u"cpf " J GRC " xcewwo kpi "vpf gt"r tqxkukqp"qh" y j g"uwpf ctf "cr r rkecdrg"vq" "Encuu"KK"cpf "Encuu"KK"tqqh kpi q r gtcv kpu0



# ASBESTOS

## CLARIFYING CORRECTIONS

Ugxtgcrleqttgevkpu"ctg'dgkpi 'o cf g'v'j g'tgi wrcvt { 'hpi wci g'v'j'ertkh { 'QUI C)u'lpvgpv'cpf "cxqkf " wpegtvclpv { 'co qpi "go r m { gtu'y j q' 'o wuv'eqo r n { 'y kj 'y g'ucpf ctf 0'

Rctci tcr j "m\*9+\*k+\*l" 'y j lej 'f guetkdu'y j g'dcukl'ht 'o ctnkpi 'lpkkn'gzzr quwtg'cuuguuo gpw. 'ku'dgkpi " eqttgevgf "v'ucvg'o qtg'fktgevn { 'y cv'y g'lpkkn'gzzr quwtg'cuuguuo gpv'o wuv'dg'dcugf "qp'lqduksg" o qpkqtkpi "wprguu'c'pgi cvxg"gzr quwtg'cuuguuo gpv'j cu'dggp'o cf g0'

Vj g'lpvtqf wrcvt { 'ugpvpeg'qh'r ctcj tcr j "i +\*D+\*k+\*l" 'ku'dgkpi "eqttgevgf "v'ertkh { 'QUI C)u'lpvgpv'y cv'y g" tgs wktgo gpw'qh'r ctcj tcr j "i +\*D+\*k+\*l" 'f q'pqv'cr r n { 'v' 'tgo qxcn'qh'CEO 'htqo 'tqqhu'dw'qpn { 'v' 'tgo qxcn'qh' CEO 'htqo 'dw'kf kpi "gzvgtkqtu"qy gt'y cp'tqqhu0'

Rctci tcr j "m\*9+\*k+\*l" 'ku'dgkpi "eqttgevgf "v'cuwtg'y cv'uki pu'f go ctecvkpi 'c'tgi wrcvf "ctgc'r tqxkf g'ceewtcvg" kphqto cvkqp'cu'v'y j gy gt'tgur kcvqtu'cpf 'r tqvgevkg'emqj kpi 'ctg'tgs wktgf 'lp'y g'ctgc0"Cu'qtki kpcn { 'y tkwgp." y j g'r tqxkukqp'tgs wktgf 'cm'uwej 'uki pu'v'ucvg'y cv'tgur kcvqtu'cpf 'r tqvgevkg'emqj kpi 'o wuv'dg'y qtp'lp'y g" tgi wrcvf "ctgc0J qy gxgt. 'y ku'lphqto cvkqp'y cu'uqo gwo gu'lpceewtcvg."dgecwug'egtclp'y qtn'o wuv'dg" r gthqto gf 'lp'tgi wrcvf "ctgcu'gxgp'y j gp'y g'go r m { ggu'lp'y g'ctgc'ctg'pqv'tgs wktgf "v'y gct'tgur kcvqtu'cpf " r tqvgevkg'emqj kpi 0Hqt'gzco r ng."cm'Ercuu'Kky qtn'o wuv'dg'r gthqto gf 'lp'tgi wrcvf "ctgcu."dw'tgur kcvqtu" cpf lqt'r tqvgevkg'emqj kpi 'ctg'pqv'tgs wktgf 'f wtkpi 'uwej 'y qtn'kh'y g'o cvgtkn'tgo clpu'uwducpv'cm { 'kpcev' f wtkpi 'tgo qxcn'cpf "c'pgi cvxg"gzr quwtg'cuuguuo gpv'j cu'dggp'o cf g0Ceeqtf kpi n { 'r ctcj tcr j "m\*9+\*k+\*l" 'ku' dgkpi "eqttgevgf "v'r tqxkf g'y cv'uki pu'o ctnkpi 'tgi wrcvf "ctgcu'o wuv'ucvg'y cv'tgur kcvqtu'cpf 'r tqvgevkg" emqj kpi 'o wuv'dg'y qtp'y kj kp'y g'ctgc'qpn { 'y j gp'y g'ucpf ctf 'lp'hcevtgs wktgu'uwej 'r tqvgevkgp0'



## ASBESTOS

## CLARIFYING INTERPRETATIONS

F ghpkkp'qh'Slpce\$<'Vj g'gto 'Slpce\$'ku'wuf 'lp'c'pwo dgt'qhr'tqxkukpu'qh'yj g'ucpf ctf'tgrv'p'v'q'tqqh'p'i'y qtn0'  
Hqt'gzco r'ng.'ugxgtenr'ctci terj u'f'kuewuf'cdqxf'f'khtgpc'v'g'dgy ggp'Slpce\$'cpf '\$pqp/'lpce\$'tqqh'p'i'o cvgt'kcn0'  
Uko kctnf.'r'ctci terj '\*i \*e: \*k#C+'y j lej 'er'r'ngu'q'Encu'Kt'qqh'p'i'tgo qxcn.'tgs w'ku'v'y cv'tqqh'p'i'o cvgt'kcn'dg'  
tgo qxgf 'lp'cp'Slpce\$'ucv'g'q'yj g'z'v'p'v'g'cud'gn0'Slpce\$'ku'f'gh'p'g'cv'r'ctci terj '\*d+'v'o gcp'Sy cv'yj g'CEO ""j cu"  
pqv'etwo drng.'.dggp'r'w'xg'k'gf.'.qt'q'yj gty kug'f'gvt'k'q'cv'g'f'q'v'yj cv'k'ku'p'q'k'p'i'gt'k'ng'f'q'v'dg'dqwp'f'y k'j 'ku'o cv'k'z'0'  
Ceeqtf'k'p'i'n'.'.r'ctci terj '\*i \*e: \*k#C+'ku'uc'v'k'g'f'y j gp'yj g'tqqh'p'i'o cvgt'kcn'ku'tgo qxgf 'lp'c'o c'p'p'gt'yj cv'f'qgu'p'q'  
ecw'g'k'v'q'etwo drng.'.dgeo g'r'w'xg'k'gf.'.qt'q'yj gty kug'f'co ci g'f'lp'c'o c'p'p'gt'yj cv'ku'k'ng'f'q'v'trg'cug'cud'gu'qu'hd'gtu0'  
Cnq.'k'h'cud'gu'qu'eq'p'v'k'p'i'tqqh'p'i'o cvgt'kcn'ku'pqv'tgo qxgf 'Slp'c'uw'uc'p'v'k'cm'f'lp'ce'v'ucv'g.'S'r'ctci terj '\*j \*n#k#'  
tgs w'ku'v't'gur'k'cv'q't'wug0'k'p'uj qtv.'yj g'o gcp'k'p'i'qh'yj g'gto 'Slpce\$'j cu'eq'p'k'f'g'cd'ng'k'o r'q'v'c'peg'lp'f'g'v'gto k'p'k'p'i' "  
y j g'yj g't'cp'f'j qy'tqqh'p'i'qr'g'tc'v'k'p'u'ctg't'gi w'x'g'f'wp'f'g't'yj g'ucpf ctf'0'

Tqqhkp "o cvtken'j cv'tg'ugr ctcvgf "lpvq'r lgegu'lp'j g'r tqegu'qh'tgo qxcn'qt'tgr ck'tcg'pqv'eqpuk'gtgf "v'dg' \$ppp/  
 lpvcew'uqrgn' dgecwug'j g'o cvtken'j cu'dggp'eww'urkegf .r'rkf . "qt'qj gty lug'ugr ctcvgf "lpvq'"uo cmgt'wpksu'ht'j g"  
 r wtr qug'qh'tgo qxcn'0Vj g'eqpf kklp'qh'j g'uo cmgt'wpksu'qt'r lgegu'qh'tgo qxgf "tqqhkp "hqt'gzco r rg.c'4'hqvd' { "4"  
 hqqv'ugev'qp'qh'dwn'w'r "tqqhkp -o wu'dg'gxcn'w'gf "ci ckpu'v'j g'f ghp'klp'qh'j g'vto " \$pvcw' \$lp'r ctcj trj "d'qh"  
 v'j g'ucpf ctf "lp'qt'f gt'v'f g'vto kpg'y j g'v'j g'tqqhkp "o cvtken'j cu'dggp'tgpf gtgf " \$ppp/lpvcew'd { "c'tgo qxcn'qt"  
 tgr ck'qr gtcv'kp0"Hqt'gzco r rg<

30) Dwt/wr 'tqqlhpi "DWT'+vj cvj cu'dggp'ew'lpv'uo cmgt'ugev'qpu'\*g0 0'wukpi "c'r qy gt'tqqh'ewwgt'+cpf "r tkgf "wr "htqo 'vj g'tqqh'ku'pqvf ggo gf "vq'dg'\$pqp/tpcev\$'uqrgn 'dgecwug'kvj cu'dggp'ugr ctcvgf 'lpvq'r kgegu'0kvj g'r kgegu'qh' tgo qxgf 'DWT'j cxg'\$pqv'etwo drgf. "dggp'r w'xgtk gf. "qt'qvj gty kug'f gvgtkqtcvgf "uq'vj cv'vj g{ '\_ctg'pq'npj gt 'hkngr "vq'dg'dqwpf 'y kj "vj gk '\_o ctkz.\$'vj gp'vj g{ 'ctg'\$tpcev\$'cu'f g'hp'gf ""'kp'r ctcj tcr j "d+qh'vj g'ucpf ctf 0Qp'vj g"qvj gt'j cpf. 'vj g'f wu'etgcvgf 'd{ 'vj g'f g'utw'v'xg'hqteg'qh'vj g'eww'kpi "drf g'qh'c'r qy gt'tqqh'ewwgt'y qwf 'dg' eqpuk'gtgf '\$pqp/tpcev\$"

40Ávj g'uco g'lpwtr tgvwkp"cr r nku'q"qj gt'tqqhpi 'o cvgtkni'y j kej 'ctg'v r kcm' 'tgo qxgf'd' { f k k f kpi 'y go 'lpvq"  
 "" uo cmgt'wpku0'Hqt'gz co r ng.'tqqh'o cuveu'cpf'ego gpw'ctg'wuwcm' 'r tkgf.'ej k r g f'qt'ueter gf'qhh'cur j cn'hgn'"  
 "" wpf gtr{ o gpw'ctg'unlegf'cpf'tqngf/'w'r'qt'uqo g'vko gu'eter gf/qhh'qt'ej k r g f/'qhh'cpf'hcuj kpi u'ctg'unlegf'lpvq'"  
 "" o cpei gcdng'wpku'cpf'y gp'r tkgf/wr 0'Vj g'hcev'y cvtqqhpi ""o cvgtkni'j cxg'dggp'tgo qxgf'lp'y ku'hcuj kpp'f qgu'"  
 "" pqv'd'f'kuh'tgpf gt'y go 'bqp/lpcev'wpf gt'y g'ucpf ctf 0Tcy gt.'y g'tgo qxgf'r lgegu'qh'tqqhpi 'o wu'dg'"  
 "" gxcmwgf'q'f g'vto lpg'y j gvj gt'y g'f'ctg'lpcev\$'cu'f ghkgf'lp'r cti ter j '3323\*d+qh'y g'ucpf ctf 0'

50 <sup>AN</sup>ngy kug."cnj qwi j "cudguqu/ego gpv"C IE+uj lpi ngu'ctg'r'tl'gf "wr "d{ "j cpf "cpf "tgo qxgf "cu'lpf kxf wcn'wpku"qh"  
 " tqqlhpi . "geecukqpcml "l'pekf gpv'cn'dtgcnci g'qh'vj g'uj lpi ngu'y kn'qeew "gxgp "f wtkpi "ect gh'wlt go qxcnr' t'qegf wtu0"  
 " Uvej "l'pekf gpv'cn'dtgcnci "f agu'pqv'lp "cpf "qh'kug'h't'gpf gt 'vj g'o cvgt kn'pqp/kpcev'wfp gt 'vj g'uxcpf ctf =vj g's wguv'kp"  
 " ku'y j gvj gt 'vj g'uj lpi ngu'y j gvj gt "dtqngp "qt "pqv'j c'xg "dggp "etwo drgf . 'r w'xg'tk gf . "qt "qvj gty kug'ctg "pqv'kn'gn "vq"  
 " dg'dqwpf 'y kj 'vj g't "ego gpv'k'kw'u'o c'v'k "cu'c't'guwn'qh'vj g'tgo qxcn'qr gtc'v'kp0Vj g'uco g'lpv'gtr t'gcv'kp "cr r'ngu'vq"  
 " l'pekf gpv'cn'dtgcnci g'qh'qvj gt "cudguqu/eqp'v'cl'pki "tqqlhpi "o cvgt kn'f wtkpi "tgo qxcn'qt "uwdugs wgpv'j cpf r'pki 0'

Rɛtɕi tɛr j<sup>h</sup> +n<sup>h</sup> kɛtɕs wɛtɕu<sup>h</sup> j<sup>h</sup> cɛvtɕur kɛcɛqtu<sup>h</sup> dg<sup>h</sup> wug<sup>h</sup> 'h<sup>h</sup> j<sup>h</sup> g<sup>h</sup> o cɛgtɕn<sup>h</sup> ku<sup>h</sup> pɛv<sup>h</sup> tgo qɛxg<sup>h</sup> 'k<sup>h</sup> c<sup>h</sup> 'Suwduncpɛcm<sup>h</sup> ('k<sup>h</sup> pɛv<sup>h</sup> uncɛg<sup>h</sup>)  
Vj ku<sup>h</sup> r tɛxkukɛp<sup>h</sup> f<sup>h</sup> qgu<sup>h</sup> pɛv<sup>h</sup> tɕs wɛtɕu<sup>h</sup> j<sup>h</sup> cɛvtɕur kɛcɛqtu<sup>h</sup> dg<sup>h</sup> wug<sup>h</sup> f<sup>h</sup> wɛkɛp<sup>h</sup> 'tgo qɛxɛn<sup>h</sup> qh<sup>h</sup> dwɛn<sup>h</sup> wr<sup>h</sup> tɛqɛh<sup>h</sup> kɛp<sup>h</sup> 'y j<sup>h</sup> gp<sup>h</sup> j<sup>h</sup> g<sup>h</sup> DWT<sup>h</sup> 'ku<sup>h</sup> ew<sup>h</sup>  
kɛpɛq<sup>h</sup> r kɛgu<sup>h</sup>

J GRC "Xcewwo kpi . 'Y gv'O gy qf u. "cpf "Dci i kpi "qt "Y tcr r kpi "qh'Tgo qxgf 'O cvgtkcn'Egtvcp'qh'v' g'eqtggev'kpu'v'q" y'g'ucpf'ctf'v'j'cv'j'cxg'dggp'f'guetkdg'g'ctrkt'k'o'k'v'g'ukwcv'kpu'lp'y'j'kej "J GRC "xcewwo kpi . 'y'gv'o'gy'qf'u."cpf " dci i kpi "qt'v' tcr r kpi "ctg'pggf'gf'v'j'gp'cudguqu'eqvcpkpi "tqhqkpi "o'cvgtkcn'ctg'\$lpvce'\$dqv' 'r'ktq'v'q'cpf'chgr" tgo qxcn'Dgecvug'o'cp{'tqhq'tgo qxcn'lqdu'lp'xqnxg'tgo qxcn'qh'lpvce'v'o'cvgtkcn'k'ku'wughwi'v'q'wwo'o'ctk'g'y'j'gp'v'j'gug" r'tgecv'kpu'ctg'tgs'wkt'gf'o'



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# SCAFFOLDS

## SUMMARY AND EXPLANATION OF THE FINAL RULE

### WHAT ARE THE HIGHLIGHTS OF THE REVISED SCAFFOLDING STANDARD?

- Go r m{ gtu'cpf 'go r m{ ggu'ij qwf 'dg'hco kkt'y kj 'ugxgp'ng{ 'r tqxkukpu'qh'yj g'uechhqr'f kpi 'ucpf ctf <
- FÄ Vj g'ucpf ctf 'tgs wkt gu'hml'r tqgev'kp'cv'c'IQ/hq'v'j gki j v'cdq'xg'c'my gt'hxg'nhqt'go r m{ ggu'03; 480673\*1 +\*n"
- 40ÄI wctf tckl'j gki j v'/'Vj g'j gki j v'qh'yj g'qr tckl'ht'uechhqr'f u'o cpw'cew'gf 'cpf 'r nregf 'kp'ugt'xleg'dgh'gt" Lcpwct { "3."4222"ecp'dg'dgy ggp'58'lpej gu'cpf '67'lpej gu'0Vj g'j gki j v'qh'yj g'qr tckl'ht'uechhqr'f u" o cpw'cew'gf 'cpf 'r nregf 'kp'ugt'xleg'chgt' Lcpwct { "3."4222"o wuv'dg'dgy ggp'5: 'lpej gu'cpf '67'lpej gu'0" 3; 480673\*1 +\*6+\*k"
- 50ÄY j gp'yj g'etquur qkp'v'qh'etquudt'celpi 'ku'wugf 'cu'c'v'qr tckl'k'o wuv'dg'dgy ggp'5: 'lpej gu'cpf '6: 'lpej gu'cdq'xg" yj g'y qtnl'r n'v'hto 0'3; 480673\*1 +\*6+\*zx+"
- 60ÄO kf tckl'u'o wuv'dg'kpucmgf 'er r tqzko cv'ng{ 'j ch'y c{ 'dgy ggp'yj g'qr tckl'cpf 'y g'r n'v'hto 'uwt'heg'0 Y j gp'c'etquur qkp'v'qh'etquudt'celpi 'ku'wugf 'cu'c'v'qr tckl'k'o wuv'dg'dgy ggp'42'lpej gu'cpf '52'lpej gu'cdq'xg" yj g'y qtnl'r n'v'hto 03; 480673\*1 +\*6+"
- 70ÄGtgev'kpi 'cpf 'F'kuo cp'v'kpi '/'Chgt'Ugr vgo dgt'4."3; ; 9."y j gp'gtgev'kpi 'cpf 'F'kuo cp'v'kpi 'uwr r qt'v'f 'uechhqr'f u."c" eqo r g'v'p'r gtu'qp"(see the standard's requirements for and definition of a competent person in the next question) o wuv'f g'v'to kpg'yj g'hgcukd'k'k'v' 'qh'r tqx'kf kpi 'c'uchg'o gcpu'qh'ceegu'cpf 'hml'r tqgev'kp'ht'yj gug' qr gtc'v'kpu'0; 480673\*g+\*+; +( "i +\*4+"
- 80ÄVtckl'kpi '/'Go r m{ gtu'o wuv'tckl'p'gcej 'go r m{ gg'y j q'y qtnu'qp'c'uechhqr'f "qp'yj g'j c| ctf u'cpf 'y g'r tqegf w'gu" v'q'eqp'v'q'v'j g'j c| ctf u'0; 480676"
- 90ÄKpur gev'kpu'/'Dgh'gt'gcej 'y qtnl'ij k'h'cpf 'chgt'cp { 'qew'tt'gpeg'yj cv'eqwf 'ch'ge'v'yj g'ut'wew'tcn' kp'v'i tk'f . "c'eqo r g'v'p'r gtu'qp"o wuv'kpur gev'yj g'uechhqr'f 'cpf 'uechhqr'f 'eqo r qp'gp'w'ht'x'kuk'd'g'f gh'ge'u'0 3; 480673\*h#5+"
- : 0ÄQxgtj cpf 'dt'lem'c{ kpi " C'i wctf tckl'qt' r gtu'qpc'n'hml'ctt'gu'v'u{ vgo "qp'c'm'uk'f gu'gzegr v'yj g'uk'f g'y j gt'g'yj g'y qtnl' ku'd'g'kpi 'f'qp'g'o wuv'r tqgev'go r m{ ggu'f'qkpi 'qxgtj cpf 'dt'lem'c{ kpi 'ht'qo 'uwr r qt'v'f 'uechhqr'f u'0 3; 480673\*1 +\*n\*+k"

### WHEN IS A COMPETENT PERSON REQUIRED FOR SCAFFOLDING?

QUI C'au'uechhqr'f kpi 'ucpf ctf 'f'gh'kp'gu'c'eqo r g'v'p'r gtu'qp'cu'\$'qpg'yj j q'ku'ecr'cd'ng'qh'kf gp'v'h{ kpi 'gz'kuk'kpi 'cpf " r t'gf'k'ev'cd'ng'j' c| ctf u'k'p'yj g'uw'tt'q'wp'f kpi u'qt'y qtnl'kpi "eqpf k'k'qpu."y j k'ej 'ctg'w'puc'pkct { .j c| ctf q'wu'v'q'go r m{ ggu." cpf 'y j q'j cu'cwj qt'k'v'k'p'v'q'v'cng'r tqo r v'eq'tt'gev'k'xg'o gcu'w'gu'v'q'g'ko k'p'cv'g'yj go 0"

Vj g'ucpf ctf 'tgs wkt gu'c'eqo r g'v'p'r gtu'qp'v'q'r g'ht'qto 'y'j g'hq'm'y kpi 'f'w'kgu'w'p'f gt'yj gug'ek'tewo uc'pegu'<

30ÄKp'I gpg'tcn"

c0ÄVq'ugr'gev'cpf 'f'k'gev'go r m{ ggu'yj j q'gt'gev.'f'kuo cp'v'g."o q'xg."qt'c'ngt'uechhqr'f u'03; 480673\*h#34+"

d0Vq'f'g'v'to kpg'k'h'k'ku'uchg'ht'go r m{ ggu'v'q'y qtnl'qp'qt'ht'qo "c'uechhqr'f 'f'wt'kpi 'u'v'to u'qt'j k'j j 'y k'p'f u'cpf 'v'q" g'pu'w'g'yj cv'c'r gtu'qpc'n'hml'ctt'gu'v'u{ vgo "qt'y k'p'f 'u'et'ggpu'r tqgev'yj gug'go r m{ ggu'0\*P q'v'g'<Y k'p'f u'et'ggpu" u'j q'wf 'pq'v'dg'w'ugf 'w'p'ngui'yj g'uechhqr'f 'ku'ugew'gf 'ci c'kpu'v'yj g'cp'v'ekr'cv'g'f 'y k'p'f 'h'qtegu'ko r qu'g'0" 3; 480673\*h#34+"

40ÄHqt'Vtckl'kpi <Vq'v'tckl'p'go r m{ ggu'k'p'x'q'x'gf 'kp'gt'gev'kpi . 'f'kuc'u'go d'kpi . "o q'x'kpi . "qr gtc'v'kpi . "tgr ckt'kpi . " o c'k'p'v'k'kpi . "qt'k'pur gev'kpi 'uechhqr'f u'v'q't'geqi p'k' g'cu'q'ek'v'g'f 'y qtnl'j c| ctf u'0; 480676\*d+"



# SCAFFOLDS

50Á Hqt "Kpur gevqpu<"

c0Á Vq "kpur gev'uechhqr u'cpf "uechhqr "eqo r qpgpw'ht "xkldng'f ghgew'dghqtg'gcej "y qtnluj kh'cpf ""  
" chngt "cp { "qeewtgpeg"vj cv'eqwf "chhgev'j g'utwewtcnlpvgi tkf "cpf "q'cwj qtk g'r tqo r v"  
" eqttgevkg'cevqpu03; 480673\*f\*5+<"

d0" Vq "kpur gev'tqr gu"qp"uwur gpf gf "uechhqr u'r tkqt "q'gcej "y qtnuj kh'cpf "chngt "gxgt { "qeewtgpeg"vj cv"  
" eqwf "chhgev'j g'utwewtcnlpvgi tkf "cpf "q'cwj qtk g'r tqo r v'eqttgevkg'cevqpu0"  
" 3; 480673\*f\*2+<"

e0" Vq "kpur gev'o cpkrc'qt "r ncukc"\*qt "qj gt "u{ p'j g'vle+tqr g'dgkpi "wugf "hqt "vqr tcku"qt "o kf tcku0"  
" 3; 48067nñi +\*6+\*zxx+<"

60Á Hqt "Uwur gpukp "Uechhqr u<"

c0Á Vq "gxcnmcvg'f k'gev'eqppgevqpu"vq "uwur r qtv'j g'iqcf 03; 480673\*f\*5+\*k+<"

d0Á Vq "gxcnmcvg'j g'pggf "q'ugewtg'j ^Q/r qlpv'cpf "o wmk r qlpv'uechhqr u'vq "r t'gxgpv'uy c { kpi 0"  
" 3; 480673\*f\*3: +<"

70Á Hqt "Gt gevqtu"cpf "F kuo cpvgtu<"

c0Á Vq "f gvgto kpg'j g'hgcukdkrkf "cpf "uchgv { "qh'r tqxkf kpi "hml'r tqvgevqp"cpf "ceegu0""  
" 3; 48067nñg+\*+ "cpf "3; 48067nñi +\*4+<"

d0Á Vq "tckp "gt gevqtu"cpf "f kuo cpvgtu"\*ghgevkg'Ugr vgo dgt "4."3; ; ; 9+ "vq'tgeqi pk g'cuuqekvgf "y qtni"  
" j c| ctf u0"3; 480676\*d+<"

80Á Hqt "Uechhqr "Eqo r qpgpw<"

c0Á Vq "f gvgto kpg'kh'c "uechhqr "y km'dg'utwewtcn { "uqwpf "y j gp'lpvgto kz kpi "eqo r qpgpw'htqo "f khgtgpv"  
" o cpw'cewtgtu03; 480673\*d+\*32+<"

d0Á Vq "f gvgto kpg'kh'i cncple'cevqp"j cu'chhgevgf "j g'ecr cekf "y j gp'wukpi "eqo r qpgpw'qh'f kuuko krc""  
" o gvcu0"3; 480673\*d+\*33+<"

## WHEN IS A QUALIFIED PERSON REQUIRED FOR SCAFFOLDING?

Vj g'ucpf ctf "f ghkpgu'c's wcnkhgf "r gtupp "cu\$apg'y j q"/"d { "r quuguukp "qh'c'tgeqi pk gf "f gi tgg."egt vkhcevg."qt"  
r tqhguukp cn'ucpf kpi ."qt "y j q"d { "gzvgpukg'hpqy r f i g."tckpki ."cpf "gzr gtkgpeg"j cu'uweeguuhwm { "  
f go qpucv'j "kulj gt "cdkrk { "vq'uqrg'qt "tguqrg'r tqdrgo u'tgrcv'vq "v'j g'uwdlgev'o cvgt. "j g'y qtm"qt ""v'j g"  
r tqlgev0"

Vj g's wcnkhgf "r gtupp "o wuv'r gthqto "v'j g'hqmqy kpi "f wkgu'kp "v'j gug'ekewo ucpegu<"

30"" kpi "I gpgtcn<"Vq "f guki p"cpf "iqcf "uechhqr u'kp"ceeqtf cpeg'y kj "v'j cv'f guki p03; 480673\*c\*8+<"

40Á Hqt "Vtckpki <"Vq "tckp"go r mq { ggu'y qtnkpi "qp"v'j g'uechhqr u'vq'tgeqi pk g'v'j g'cuuqekvgf "j c| ctf u'cpf ""  
" wpf gtucpf "r tqegf wgu"vq'eqptqn'qt "o kpk k g'v'j qug'j c| ctf u0; 480676\*c+<"

50Á Hqt "Uwur gpukp "Uechhqr u<"

c0Á Vq "f guki p"v'j g'tki i kpi "hqt "ukpi ng/r qlpv'cf lwucdng'uwur gpukp "uechhqr u0; 480674\*2+\*4+\*3+<"

d0Á Vq "f guki p"r ncv'qto u'qp"vy q/r qlpv'cf lwucdng'uwur gpukp "v'j r gu'v'j cv'ctg'rgu"v'j cp "58"lpej gu'y kf g'vq""  
" r t'gxgpv'lpucdkrkf 03; 480674\*r\*3+<"

e0Á Vq "o cng'uy ci gf "cwcej o gpw'qt "ur rlegf "g { gu'qp"y k'g'uwur gpukp "tqr gu0; 48067nñf +\*33+<"

60Á Hqt "Eqo r qpgpw'cpf "F guki p<"Vq "f guki p"uechhqr "eqo r qpgpw'eqpustwvqp "kp"ceeqtf cpeg'y kj "v'j g""  
" f guki p0; 480673\*c\*8+<"



# SCAFFOLDS

## WHEN IS AN ENGINEER REQUIRED?

Vj g'uecpf ctf 'tgs wkt gu'c'tgi kvgtgf 'r tqhguakpncn'gpi kpggt 'q'r gthqto 'vj g'hqmqy kpi 'f wkgu'kp'vj gug' ekewo uepegu'<

30Á Hqt 'Uwur gpukqp 'Uechhqr u'Vq 'f guki p'vj g'f kgeveqppgevkpu'qh'o cuqpu'o wmk/r qlpv'cf lwucdng'uwur gpukqp' uechhqr uß; 48067n'f +5+\*n'

40Á Hqt 'F guki p'<

c0Á Vq 'f guki p'uechhqr u'vj cv'ctg'vq'dg'o qxgf 'y j gp'go r nq { ggu'ctg'qp'""vj go ß; 480673\*1n\*7+<

d0Á Vq 'f guki p'r qng'uechhqr u'qxgt '82'hggv'kp'j' gki j vß; 480674\*c+\*32+<

e0Á Vq 'f guki p'wdg'cpf 'eqwr rgt 'uechhqr u'qxgt '347'hggv'kp'j' gki j v03; 480\*d+\*32+<

f 0Á Vq 'f guki p'hdtlecvgf 'hco g'uechhqr u'qxgt '347'hggv'kp'j' gki j v'cdqxg'vj gk'tdcug'r ncvu03; 480674\*e+\*8+<

g0Á Vq 'f guki p'dtcengw'qp'hdtlecvgf 'hco g'uechhqr u'wugf 'vq'uw r qt v'ecpvkxgtgf 'nqcf u'kp'cf f kkpq'vq' y qtngtuß; 480674\*e+\*7+<

h0Á Vq 'f guki p'qwtki i gt'uechhqr u'cpf 'uechhqr 'eqo 'r qpgpwß; 480674\*3+\*+<

## GENERAL REQUIREMENTS FOR SCAFFOLDS §1926.451

### CAPACITY

30Á Y j cv'ctg'vj g'ecr cekv' 'tgs wkt go gpw'hqt'cni'uechhqr u'A'<

Gcej 'uechhqr u'cpf 'uechhqr 'eqo r qpgpw'o wuv'uw r qtv'y kj qw'hckwtg'ku'qy p'y gki j v'cpf 'cv'hcuv'hqwt'vko gu' vj g'o czko wo 'kpvgpf gf 'nqcf 'er r nkgf 'qt'tcpuo kwgf 'vq'k03; 480674\*c+\*K'<

C's wckhkf 'r gtupp'o wuv'f guki p'vj g'uechhqr u.'y j lej 'ctg'nqcf gf 'kp'ceeqtf cpeg'y kj 'vj cv'f guki p0' 3; 480674\*c+\*8+<

Uechhqr u'cpf 'uechhqr 'eqo r qpgpw'o wuv'pqv'dg'nqcf gf 'kp'gzeguu'qh'vj gk't'o czko 'wo 'kpvgpf gf 'nqcf u'qt' tcvgf 'ecr cekkgu.'y j lej gxgt 'ku'rguu03; 480674\*1n\*3+<

Nqcf 'ectt { kpi 'vko dgt'o go dgtu'uj qwf 'dg'c'o kpk'o 'wo 'qh'3.722'nd/hlkp'\*4+eqputwevkp'i tcf g'hwo dgt0'''' Crr gpflz 'C'\*3+c+<

### SCAFFOLD PLATFORM CONSTRUCTION

30Á Y j cv'ctg'vj g'uechhqr 'r nvhqto 'eqputwevkp'tgs wkt go gpw'A'<

Gcej 'r nvhqto 'o wuv'dg'r rpnngf 'cpf 'f gengf 'cu'hwn' 'cu'r quukdg'y kj 'vj g'ur ceg'dgwy ggp'vj g'r nvhqto 'cpf ' wtki j w'pqv'o qtg'vj cp'3kpej 'y kf g0Vj g'ur ceg'o wuv'pqv'gzeggf ' 'kpej gu'y j gp'ukf g'dtcengw'qt'qf f / uj cr gf 'utwewtgu'tguwn'kp'c'y kf gt'qr gplpi 'dgwy ggp'vj g'r nvhqto 'cpf 'vj g'wrtki j wß; 480674\*d+\*n'<

40Á Y j cv'ctg'vj g'tgs wkt go gpw'hqt'uechhqr 'r rpnkpi A'<

Uechhqr 'r rpnkpi 'o wuv'dg'cdng'vq'uw r qtv'y kj qw'hckwtg'ku'qy p'y gki j v'cpf 'cv'hcuv'hqwt'vko gu'vj g' kpvgpf gf 'nqcf 03; 480673\*c+\*n'<

Uqrf 'ucy p'y qqf 'hdtlecvgf 'r rpnmu'cpf 'hdtlecvgf 'r nvhqto u'o c { 'dg'wugf 'cu'uechhqr 'r rpnmu'hqmqy kpi ' vj g'tgego o gpf cvkpu'd { 'vj g'o cpwkcwtgt'qt'c'nwo dgt'i tcf kpi 'cuuqekvqp'qt'kpur gevqp'ci gpe { 0'''' Crr gpflz 'C'\*n\*d+( ' \*e+<

Vedngu'uj qy kpi 'o czko wo 'r gto kuukdg'ur cpu.'tcvgf 'nqcf 'ecr cekv' . 'cpf 'pqo kpcn'vj kempgu'ctg'kp' Crr gpflz 'C'\*n\*d+( ' \*e+<



# SCAFFOLDS

50ÁY j cv'ku'yj g'o czko wo 'f ghgevkqp'qh'c'r nvhqto A'

" Vj g'r nvhqto 'o wuv'pqvf ghgevo qtg'yj cp'3l82'qh'yj g'ur cp'yj gp'mqcf gf 03; 480673\*~~h~~+~~n~~8+" "

60ÁCtg'yj gtg'tgs wktgo gpw'htq'y qtnlqp'r nvhqto u'enwgtgf 'y kj 'f gdtkuA'

" Vj g'ucpf ctf 'r tqj kdku'y qtnlqp'r nvhqto u'enwgtgf 'y kj 'f gdtku03; 480673\*~~h~~+~~n~~5+" "

70Á qy 'y kf g'f qgu'yj g'y qtnlctgc'pggf 'vq'dg'qp'uechhqr lpi A'

" Gcej 'uechhqr' r nvhqto 'cpf 'y cmy c{ 'o wuv'dg'cv'gcu'v3: 'lpej gu'y kf g0Y j gp'yj qtnlctgc'ku'rgu' "

" yj cp'3: 'lpej gu'y kf g.'i wctf tcku'cpf lqt'r gtuqpcn'hm'cttgu'u{ ugo u'o wuv'dg'wugf 08; 480673\*d+\*4+" "

80ÁCtg'i wctf tcku'tgs wktgf 'qp'cm'qr gp'ukf gu'qh'uechhqr lpi A'

" Vj g'ucpf ctf 'tgs wktgu'go r m{ gtu'vq'r tqgev'gcej 'go r m{ gg'qp'c'uechhqr 'o qtg'yj cp'32'hggv'cdqxc'c" "

" mgy gt'rgxgn'htqo 'hcnkpi 'vq'yj cv'hyj gt'rgxgn03; 480673\*i+\*3+" "

Vq'gpuwtg'cf gs wcv'r tqgev'kqp.'lpucm'i wctf tcku'cm'pi 'cm'qr gp'ukf gu'cpf 'gpf u'dghqtg'tgrgcukpi 'yj g'uechhqr 'hqt'wug'd{ 'go r m{ ggu.'qyj gt'yj cp'yj g'gtgev'kqp'cpf 'f ku' cpv'kpi 'etgy u0'3; 480673\*i+\*6+" "

" I wctf tcku'ctg'pqv'tgs wktgf . 'j qy gxtg. "

•Áy j gp'yj g'htqp'v'gpf 'qh'cm'r nvhqto u'ctg'rgu'yj cp'36'lpej gu'htqo 'yj g'hceg'qh'yj g' "

" y qtn=3; 480673\*d+\*5+\*~~kk~~+" "

•Áy j gp'qwtki i gt'uechhqr u'ctg'5'lpej gu'qt'rgu'htqo 'yj g'htqp'v'gf i g=3; 48067n'd+\*5+\*~~K~~+" "

•Áy j gp'go r m{ ggu'ctg'r nvgtlpi 'cpf 'nvj lpi '3: 'lpej gu'qt'rgu'htqo 'yj g'htqp'v' "

" gf i g08; 48067n'd+\*5+\*~~kk~~+" "

90ÁY j cv'o cvgtkcu'ctg'wpccegr wdn'htq'i wctf tckuA'

" Ugg'n'lt'r nvke'dcpf lpi 'o wuv'pqv'dg'wugf 'cu'c'vqr tckl'qt'c'o kf tck03; 480673\*i+\*6+\*~~zkk~~+" "

## CRITERIA FOR SUPPORTED SCAFFOLDS

n0"Y j cv'ctg'uw'r r qtvgf 'uechhqr uA'

Uw'r r qtvgf 'uechhqr u'ctg'r nvhqto u'uw'r r qtvgf 'd{ 'rgi u.'qwtki i gt'dgco u.'dtcengv.'r qrgu.'wr tki j wu.'r quvu.'htco gu.'qt'uko kct'tki kf 'uw'r r qt'v03; 480673\*d+" "

Vj g'utwewtcd'no go dgtu'r qrgu.'rgi u.'r quvu.'htco gu.'cpf 'wr tki j wu'o wuv'dg'r nwo d'cpf 'dtcegf 'vq' r t'gxp'v'uy c{ lpi 'cpf 'f kur nrego gp'v03; 480673\*e+\*5+" "

40Á q'go r m{ ggu'y qtnkpi 'qp'uw'r r qtvgf 'uechhqr u'pggf 'vq'dg'v'cklpgf A'

Cm'go r m{ ggu'o wuv'dg'v'cklpgf 'd{ 'c's wcn'k'kf 'r gtuqp'vq'tgeqi pk'g'yj g'j c| ctf u'cuuqekcv'gf 'y kj 'yj g'v' r g' qh'uechhqr 'dglpi 'wugf 'cpf 'j qy 'vq'eqpvtq'n'qt'o l'pko k'g'yj qug'j c| ctf u0'Vj g'v'cklpgf 'o wuv'kpen'f g'hcm' j c| ctf u.'hcnkpi 'qdlgev'j c| ctf . 'grgevtlcn'j c| ctf u0'r tqr gt'wug'qh'yj g'uechhqr . 'cpf 'j cpf n'kpi 'qh'o cvgtkcu'03; 480673\*c+" "

50ÁY j gp'f q'uw'r r qtvgf 'uechhqr u'pggf 'vq'dg't'gwtcklpgf 'htqo 'vr r lpi A'

" Uw'r r qtvgf 'uechhqr u'y kj 'c'j gli j v'vq'dcug'y kf yj 'tcv'q'qh'o qtg'yj cp'6<3'o wuv'dg't'gwtcklpgf 'd{ " "

" i w' lpi . 'v' lpi . 'dtcklpi . 'qt'cp'gs wxcrgp'vo gcpu08; 480673\*e+\*~~K~~+" "

60Á qy 'ecp'qpg'r t'gxp'v'uw'r r qtvgf 'uechhqr lpi 'htqo 'vr r lpi A'

Gkj gt'yj g'o cpw'cewtgtu=tgeqo o gpf cvkqp'qt'yj g'hqmy lpi 'r nrego gpw'o wuv'dg'wugf 'hqt'i w' u.'v'gu.'cpf 'dtcegu' "

ÉÁKpucm'i w' u.'v'gu.'qt' dtcegu'cv'yj g'emqugu'j qtk qpvc'n'o go dgt 'vq'yj g'6<3'j gli j v'cpf 'tgr gcv' "

" " xgt'ecm' 'y kj 'yj g'vqr 't'gwtckl'p'q'ht'yj gt'yj cp'yj g'6<3'j gli j v'htqo 'yj g'vqr 0' "



# SCAFFOLDS

•Á Xgtvlecm{ "/gxgt{ "42'hggv'qt'rguu'hqt'uechhqrnf u'rguu'yj cp'5'hggv'y kf g=gxgt{ "48'hggv'qt'rguu'hqt'uechhqrnf u'o qtg'yj cp'5'hggv'y kf g0

•ÁJ qtk qpvcml "/cv'gcej "gpf =cv'lpvgtxcnu'pqv'vq'gzeggf "52'hggv'htqo "qpg'gpf Ø; 48067Kē+3+ "

70ÁY j cv'ctg'yj g'hqvpki "cpf 'hqwpf cvkqp'tgs wktgo gpw'htq'lwrr qtv'gf "uechhqrnf uA"

Uwr r qtv'gf "uechhqrnf u'r qrgu. 'rgi u. 'r quu. 'htco gu. 'cpf 'wr tki j wu'o wuv'dgct "qp'dcug'r r'vgu'cpf "o wf "uknu. "qt "qvj gt "cf gs wcv'g'htco "hqwpf cvkqpØ; 480673\*e+4+3Kē( \*Kē"

80ÁEcp'hqtmkhu. 'htqpvgpf "mqf gtu. "qt'uko krc "gs wkr o gpv'lwrr r qtv'r r'vhtgo uA"

Hqtmkhu'ecp'lwrr r qtv'r r'vhtgo u'qpn{ 'y j gp'yj g'gpvktg'r r'vhtgo 'ku'cwcej gf "vq'yj g'hqtnicpf "yj g'hqtmkhu'f qgu'pqv' o qxg'j qtk qpvcml "y j gp'y qtngtu'ctg'qp'yj g'r r'vhtgo "3; 4/80673\*e+4+3x+ "

Hqpvgpf "mqf gtu'cpf "uko krc "gs wkr o gpv'ecp'lwrr r qtv'uechhqrnf "r r'vhtgo u'qpn{ 'y j gp'yj g{ xg'dggp'ur gekhecm{ "f guki pgf "d{ "yj g'o cpwhewtgt'htq'lwcej "wugØ; 480673\*e+4+3x+ "

90ÁY j cv'o cvgtknu'ecp'dg'wugf "vq'kpetgcug'yj g'y qtnkpi "hgxgnj gli j v'qh'go r m{ ggu'qp'lwrr r qtv'gf "uechhqrnf uA"

Uknu'o c{ "dg'wugf "qp'c'rti g'ctgc'uechhqrnf 0Y j gp'c'i wctf tcknu{ ugo 'ku'wugf. "yj g'i wctf tcknj gli j v'o wuv'dg" kpetgcugf "kp"j gli j v'gs wcn'vq'yj g'j gli j v'qh'yj g'uknu0Vj g'o cpwhewtgt'o wuv'cr r tqxg'cp{ "cngtcvkppu'vq'yj g" uknuØ; 480674\*x+ "

P qvg<C'rti g'ctgc'uechhqrnf "eqpuku'qh'c'r qrg. "wdg'cpf "eqwr rgt'u{ ugo u. "qt'c'hdtkecvgf "htco g'uechhqrnf "gtgevgf "qxgt'uwducpvcml "yj g'gpvktg'y qtnictgcØ; 48067"r'd+ "

## CRITERIA FOR SUSPENDED SCAFFOLDS

30"Y j cv'ctg'lwrr gpukqp'uechhqrnf uA"

C'lwrr gpukqp'uechhqrnf "eqpvkpu'qpg'qt'o qtg'r r'vhtgo u'lwrr gpf gf "d{ 'tqr gu'qt "qvj gt "pqp/'tki kf "o gcpu'htqo " cp'qxgtj gcf "utwewtg. "3; 480672\*d+. "lwcej "cu'yj g'hqmqy kpi "uechhqrnf u'ukpi rg/r qkp'v. "o wnk'r qkp'v. "o wnk'rgxgn" vy q/r qkp'v. "cf lwucdr. "dqcuw cku=ej ckt. "ecvpct{. "ej ko pg{ "j qku'v'eqpvkpwqu'twp. "grgxcvt'hcng'ect. "i q/ f gxku. "lpvgtkt"j wpi. "o cuqpu) "cpf "uqpg'ugwgtuØ

40ÁCtg'yj gtg'tgs wktgo gpw'htq'lwrr gpukqp'uechhqrnf uA"

Ugo g'qh'yj g'tgs wktgo gpw'htq'cm'v{ r gu'qh'lwrr gpukqp'uechhqrnf u""kpenw'g<

•ÁGo r m{ gtu'o wuv'gpwgt'yj cv'cm'go r m{ ggu'ctg'tc'kp'gf "vq'tgeqi pk g'yj g'j c| ctf u'cuuqekcvgf "y kj "yj g'v{ r g'qh'uechhqrnf "dgkpi "wugf Ø; 480673\*f+3+ "

•ÁCm'lwrr r qtv'f gxlegu'o wuv'tgu'qp'uwthcegu'ecr cdrq'qh'lwrr r qtv'kpi "cv'rgcu'hw'w'ko gu'yj g'hqcf "ko r qugf "qp'yj go " d{ "yj g'uechhqrnf "y j gp'qr gcvkpi "cv'yj g'tcvgf "hqc'qh'yj g'j qku'v'qt'cv'rgcu'qpg/"cpf/"c/j cth'w'ko gu'yj g'hqcf " ko r qugf "qp'yj go "d{ "yj g'uechhqrnf "cv'yj g'ucm'ecr cek{ "qh'yj g'j qku'v'yj lej gxgt "ku'i tgcvgØ; 480673\*f+3+ "

•ÁC'eqo r gvgpv'r gtuqp'o wuv'gxcnvcg'cm'f kgeveqppgevkpu'r tkqt "vq'wug'vq'eqphko "yj cv'yj g'lwrr r qtv'kpi " uwthcegu'ctg'cdrq'vq'lwrr r qtv'yj g'ko r qugf ""mqcf Ø; 480673\*f+ "

•ÁCm'lwrr gpukqp'uechhqrnf u'o wuv'dg'v'gf "qt'qvj gty kug'ugewtgf "vq'r t'gxgpv'yj go "htqo "uy c{ kpi. "cu'f gvgto kpgf "d{ "c" eqo r gvgpv'r gtuqpØ; 480673\*f+ "

•ÁI wctf tcknu. "c'r gtuqpcn'hm'cttguv'u{ ugo. "qt'dqvj "o wuv'r tqvev'gcej "go r m{ gg'o qtg'yj cp'32'hggv'cdqxc'c'my gt" r'gxgn'htqo "hcm'kpi Ø; 480673\*f+ "

•ÁC'eqo r gvgpv'r gtuqp'o wuv'lpur gev'tqr gu'htq'f ghgeu'r tkqt "vq'gcej "y qtmuj kh'cpf "chgt'gxgt{ "qeewtgpeg'yj cv' eqw'f "chgeu'c'tqr gu'lpvgi tkv{ Ø; 480673\*f+32+ "



# SCAFFOLDS

- Á Y j gp'uechhqr' r'rvhqtu u'ctg'o qtg'yj cp'46'ipej gu'cdqxs'qt'dgmjy "c'r qkp'qh'ceeguu.'rcf fgtu." tco r u.'y cmy c{ u.'qt'uko krt'uwthcegu'o wuv'dg'wugf 08; 480673\*<sup>g</sup>+<sup>z</sup> "+"
- Á Y j gp'wulpi "f'kge'ceeguu.'y g'uwthceg'o wuv'pqv'dg'o qtg'yj cp'46'ipej gu'cdqxs'qt'3/3'ipej gu" j qtk qpvcml'ltqo "y g'uwthceg 08; 480673\*<sup>g</sup>+<sup>z</sup> "+"
- Á Y j gp'icp{ctf u'ctg'epppgevgf "q"j qtk qpvcml'khp'gu'qt'utwewtcn'o go dgtu'qp'ulpi rg/r qkp'vt "y q/r qkp" cf lwucdrg'uechhqr' u.'y g'uechhqr' "o wuv'j cxs'cf f'kqpcnlpf gr gpf gpv'ur r qtv'kpgu'gs wcnlp'pwo dgt'cpf " utgpi yj "q"y g'uwur gpukqp'kpgu'cpf "j cxs'cwqo c'w'eqenlpi "f'gxlegu0K 480673\*<sup>i</sup> +<sup>5</sup>+<sup>kk</sup> "+"
- Á Go gti gpe{ "gucrg'g'cpf "t'gucw'f'gxlegu'o wuv'pqv'dg'wugf "cu'y qtnlpi "r'rvhqtu u.'wprgu'f'guki pgf "q'hwpevkqp" cu'uwur gpukqp'uechhqr' u'cpf "go gti gpe{ "u'uguo u08; 480673\*<sup>f</sup> +<sup>3</sup> "+"

50""Ctg'yj gtg'ur gekhle'tgs wktgo gpw'ht'eqwpvty gli j wuA"

Eqwpvty gli j w'wugf "q'dcncpeg'cf lwucdrg'uwur gpukqp'uechhqr' u'o wuv'dg'cdrg'q't'gukv'cv'rgcu'hw'w'ko gu'yj g' w'r lpi "o qo gpv'ko r qugf "d{ "y g'uechhqr' "qr gtcvpi "cv'gkj gt'yj g'tcvgf "hcf "qh'yj g'j qkuv'qt'qpg/cpf/c/j cni" \*o kplu wo +w'ko gu'yj g'w'r lpi "o qo gpv'ko r qugf "d{ "y g'uechhqr' "qr gtcvpi "cv'yj g'ucm'hcf "qh'yj g'j qkuv." y j lej g'xgt "ku'i tgcvt0"3; 480673\*<sup>c</sup>+<sup>4</sup> "+"

Qpn{ "y qug'kgo u'ur gekhlecm{ "f'guki pgf "cu'eqwpvty gli j w'o wuv'dg'wugf 03; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>kk</sup> "+"

Eqwpvty gli j w'wugf "hqt'uwur gpf gf "uechhqr' u'o wuv'dg'o cf g'qh'o cvgtknu'yj cv'ecppqv'dg'gucul{ "f'kucqevgf 0' Hny cdrg'o cvgtknu'wuj "cu'ucpf "qt'y cvgt."ecppqv'dg'wugf 03; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>kk</sup> "+"

Eqwpvty gli j w'o wuv'dg'ugewt'gf "d{ "o gej cplecn'o gcpu"q"y g'qwtki i gt'dgco u03; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>xx</sup> "+"

Xgt'wecnl'khp'gu'o wuv'dg'hwpgpf "q'eqwpvty gli j wu03; 480673\*<sup>i</sup> +<sup>5</sup>+<sup>k</sup> "+"

60 Ecp'ucpf .o cuqpt{ "wku."qt'tqnu'qh'ltqqhpi "hgn'dg'wugf "hqt'eqwpvty gli j wuA" ""

Pq0"Uwej "o cvgtknu'ecppqv'dg'wugf "cu'eqwpvty gli j wu03"; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>kk</sup> "+" ("kkk"

70Á Ctg'yj gtg'ur gekhle'tgs wktgo gpw'ht'qwtki i gt'dgco uA"

Qwtki i gt'dgco u"yj twuqwu+ctg'yj g'utwewtcn'o go dgtu'qh'c'uwur gpukqp'qt'qwtki i gt'uechhqr' "y cv" r tqxkf g'uwur r qtv08; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>xxk</sup> "+"

80Á Y j gtg'f'q'vlgdcemu'ht'qwtki i gt'dgco u."eqtpleg"j qqmu."tqqh"j qqmu."tqqh'ktpu."r cter g'vemo r u."qt" uko krt "f'gxlegu'pggf "q'dg'ugewt'gf A"

Vlgdcemu'o wuv'dg'ugewt'gf "q"c'utwewtcn' "uqwpf "cpej qtc i g'qp'yj g'dwkr lpi "qt'utwewtg0Uqwpf " cpej qtc i gu'f'q'pqv'kpenf'g'ucpf r kr gu.'xgpw.'qy gt'r kr lpi "u'uguo u."qt'grgext'ecr'eqpf wko' 3; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>kz</sup> "+" ("f +<sup>7</sup> "+"

90Á J qy "f'q'vlgdcemu'pggf "q'dg'kpuvcngf A"

C'ulpi rg'vlgdcemu'o wuv'dg'kpuvcngf "r gtr gpf kewrt "q"y g'hceg'qh'yj g'dwkr lpi "qt'utwewtg0Vy q'vlgdcemu" kpuvcngf "cv'qr r qukpi "cpi rgu'ctg'tgs wktgf "y j gp"r gtr gpf kewrt "vlgdcen'ecppqv'dg" kpuvcngf 08; 480673\*<sup>f</sup> +<sup>5</sup>+<sup>z</sup> "+"

: 0Á Ctg'yj gtg'tgs wktgo gpw'ht'uwur gpukqp'tqr guA"

Vj g'uwur gpukqp'tqr gu'o wuv'dg'kpi "gpqwi j "q"cmjy "y g'uechhqr' "q'dg'mjy gtgf "q"y g'rgxgn'dgmjy " y kj qw'yj g'tqr g'r cuukpi "y tqwi j "y g'j qkuv'qt'yj g'gpf "qh'yj g'tqr g'eqphk wgtf "q'r t'gxgpv'yj g'gpf "ltqo " r cuukpi "y tqwi j "y g'j qkuv08; 480673\*<sup>f</sup> +<sup>8</sup> "+"

Vj g'ucpf ctf "r tqj kdku'wulpi "tgr cktgf "y kgt08; 480673\*<sup>f</sup> +<sup>9</sup> "+"

F two "j qkuv'o wuv'eqpvclp'pq'nguu'yj cp'6 y tcr u'qh'yj g'tqr g'cv'yj g'mjy guv'r qkp03; 480673\*<sup>f</sup> +<sup>1</sup> "+"

"  
"  
"

"



# SCAFFOLDS

Go r m{ gtu'o wu'tgr nreg'y k'g'tqr g'y j gp'y g'hmqy lpi 'eqpf k'kqpu'gzkuv'nkpmu'ukz'tc'pf qo n' 'dtqngp'  
y k'gu'lp'qpg'tqr g'r'c{ 'qt'y'j tgg'dtqngp'y k'gu'lp'qpg'ut'c'pf 'k'p'qpg'r'c{ =qpg'y'j k'f 'qh'y'j g'qtki k'p'nf k'co g'vgt 'qh'y'j g'  
q'wuk'f g'y k'gu'ku'iq'w'j g'cv'f co ci g'gx'kf g'peg'y'j cv'y'j g'ugeqpf ct{ 'dtcng'j cu'gpi ci g'f 'y'j g'tqr g'cp'f 'cp{ 'q'y'j g't'  
r j { u'ec'nf co ci g'y'j cv'ko r cktu'y'j g'h'p'ek'qp'c'pf 'ut'gpi y'j 'qh'y'j g'tqr g'g; 480673\*f +32+"

U'wur gpukqp'tqr gu'uw'r q't'kpi 'c'f l'w'acdng'uwur gpukqp'uechh'q'f u'o wu'dg'c'f k'co g'vgt 'r'cti g'gp'q'wi j 'v'q'r t'q'x'kf g'  
u'w'h'le'k'gp'v'uw't'ce'g'ct'g'c'h'q't'y'j g'h'p'ek'qp'lpi 'q'h'd'tcng'c'pf 'j' q'ku'v'o g'ej c'p'kuo u'g; 480673\*h +32+"

U'wur gpukqp'tqr gu'o wu'dg'uj k'gr'f g'f 'h't'qo 'j' g'cv'r t'q'f w'ekpi 'r' t'q'eg'ug'ug'g; 480673\*h +33+"

; 0A Y j cv'ctg'u'qo g'qh'y'j g't'gs w'kt'go g'pu'h'q't'r q'y g't/q'r g't'cv'f 'uwur gpukqp'uechh'q'f 'j' q'ku'u'A'

R'qy g't/q'r g't'cv'f 'j' q'ku'u'w'ug'f 'v'q't'ck'ug'q't'iq'y g't'c'uwur g'p'f g'f 'uechh'q'f 'o wu'dg'v'g'ug'f 'c'p'f 'h'k'ug'f 'd{ 'c's w'ck'h'k'g'f 'v'g'ukpi "  
r'cd'q't'cv'q't{ 03; 480673\*f +35+"

V'j g'ux'm'h'q'f 'q'h'c'p{ 'uechh'q'f 'j' q'ku'v'o wu'p'q'v'g'zeg'g'f 'y' t'gg'v'ko g'u'ku't'c'v'f 'h'q'f 03; 480673\*c +37+"

V'j g'ux'm'h'q'f 'ku'y'j g'h'q'f 'cv'y'j j k'ej 'y'j g'r't'ko g'o q'x'g't' "o q'v'q't'q't'g'pi k'p'g'+q'h'c'r' q'y g't/q'r g't'cv'f 'j' q'ku'v'uw'mu'q't'y'j g'  
r'q'y g't'v'q'y'j g'r't'ko g'o q'x'g't'k'u'c'w'q'o c'v'ec'm{ 'f' k'ue'q'p'p'g'ev'g'f g; 48067n'd +"

I cu'q'k'p'g'r' q'y g't/q'r g't'cv'f 'j' q'ku'u'q't'g's w'k'r o g'p'v'ct'g'p'q'v'r g'to k'w'g'f g; 48067n'f +36+"

F'two 'j' q'ku'u'o wu'e'q'p'w'k'p'p'q'ng'u'y'j c'p'h'q'w't'y' t'cr u'q'h'uwur gpukqp'tqr g'cv'y'j g'h'y'j g'u'v'r q'k'p'v'q'h'uechh'q'f 't'c'x'g'f'  
3; 480673\*f +38+"

I g'ctu'c'p'f 'd'tcng'u'o wu'dg'g'p'en'q'ug'f g; 480673\*f +37+"

C'p'c'w'q'o c'v'le'd'tc'nkpi 'c'p'f 'h'en'kpi 'f' g'x'le'g. 'k'p'c'f f'k'k'q'p'v'q'y'j g'q'r g't'cv'kpi 'd'tcng.'o wu'v'gpi ci g'y'j gp'c"  
j q'ku'v'o c'ng'u'c'p'k'p'uc'p'c'p'g'q'w'u'ej c'pi g'k'p'o q'o g'p'w'o 'q't'c'p'c'ee'g'g't'c'v'f 'q'x'g'tur g'g'f g; 480673\*f +38+"

320AY j cv'ctg'u'qo g'qh'y'j g't'gs w'kt'go g'pu'h'q't'o c'p'w'cm{ 'q'r g't'cv'f 'uwur gpukqp'uechh'q'f 'j' q'ku'u'A'

" O c'p'w'cm{ 'q'r g't'cv'f 'j' q'ku'u'w'ug'f 'v'q't'ck'ug'q't'iq'y g't'c'uwur g'p'f g'f 'uechh'q'f 'o wu'dg'v'g'ug'f 'c'p'f 'h'k'ug'f 'd{ "

" c's w'ck'h'k'g'f 'v'g'ukpi 'r'cd'q't'cv'q't{ g; 48067n'f +36+"

" V'j g'ug'j' q'ku'u't'gs w'kt'g'c'r' q'uk'x'g'et'c'p'n'h'q'teg'v'q'f' g'ue'g'p'f 03; 480673\*f +39+"

330Ecp'y g'f' kpi 'dg'f' q'p'g'h'q'o 'c'uwur gpukqp'uechh'q'f A'

•A[ gu0Y g'f' kpi 'ecp'dg'f' q'p'g'h'q'o 'uwur g'p'f g'f 'uechh'q'f u'y'j gp"

•A'c'i t'q'w'p'f kpi 'eqpf w'ev'q't'k'u'e'q'p'p'g'ev'g'f 'h'q'o 'y'j g'uechh'q'f 'v'q'y'j g'ut'w'ew't'g'c'p'f 'k'u'c'v'g'cu'v'y'j g'uk' g'q'h'y'j g'y' g'f' kpi "  
r'g'c'f ="

•A'y'j g'i t'q'w'p'f kpi 'eqpf w'ev'q't'k'u'p'q'v'c'w'ej g'f 'k'p'ug't'k'g'u'y' k'j 'y'j g'y' g'f' kpi 'r' t'q'eg'u'q't'y'j g'y' q't'n'l' k'eg'g'="

•A'c'p'k'pu'w'c'v'kpi 'o c'v'g't'k'n'le'q'x'g'tu'y'j g'uwur gpukqp'y' k'g't'qr g'c'p'f 'g'z'v'g'p'f u'c'v'g'cu'v'6'h'g'g'v'cd'q'x'g'y'j g'j' q'ku'v'="

•A'k'pu'w'c'v'g'f 'r' t'q'v'g'ev'k'x'g'et'q'x'g'tu'eq'x'g't' y'j g'j' q'ku'v'="

•A'y'j g'v'ck'n'h'p'g'k'u'i w'k'f g'f .t'g'v'k'p'g'f .q't'd'q'y' 0u'q'y' c'v'k'f' q'gu'p'q'v'd'ge'q'o g'i t'q'w'p'f g'f <

•A'g'ej 'uwur gpukqp'tqr g'k'u'c'w'ej g'f 'v'q'c'p'k'pu'w'c'v'g'f 'y'j k'o d'ng'c'p'f "

•A'g'ej 'uwur gpukqp'tqr g'c'p'f 'c'p{ 'q'y'j g't'k'p'f g'r' g'p'f g'p'v'h'k'p'gu'ct'g'k'pu'w'c'v'g'f 'h'q'o 'i t'q'w'p'f kpi 0'  
3; 480673\*h +39+"

340Y j cv'o c'v'g't'k'n'ecp'dg'w'ug'f 'v'q'k'p'et'g'cu'g'y'j g'y' q't'nkpi 'h'g'x'g'n'j g'k'i j v'q'h'go r m{ g'gu'q'p'uwur g'p'f g'f 'uechh'q'f u'A'

P'q'o c'v'g't'k'n'q't'f' g'x'le'g'u'o c{ 'dg'w'ug'f 'v'q'k'p'et'g'cu'g'y'j g'y' q't'nkpi 'j' g'k'i j v'q'p'c'uwur gpukqp'uechh'q'f 0Vj k'u'k'p'en'w'f' g'u"  
r'c'f f' g'tu.'d'q'z'g'u.'c'p'f 'd'c'tt'g'n'i'3; 480673\*h +36+"( " +37+"



# SCAFFOLDS

## ACCESS REQUIREMENTS

30""Ctg"vj gtg'tgs wktgo gpw'hqt"ceeguu"vq"uechhqrnf uA"

Go r m{ gtu'o wuv'r tqxkf g"ceeguu"y j gp"vj g"uechhqrnf "r nvhqto u'ctg'o qtg"vj cp"4'hggv'cdqxs"qt'dgnqy "c"  
r qlpv'qh'ceeguu0"3; 480673\*g+\*3+"

F k gev'ceeguu'ku'ceegr vcdrg'y j gp"vj g"uechhqrnf "ku'pqv'o qtg"vj cp"36"lpej gu"j qtk qpvcnf "cpf "pqv'o qtg"vj cp"46"  
lpej gu'xgt vccmf "htqo "vj g"qyj gt"uwlhcegu0"3; 480673\*g+\*+ "

Vj g"ucpf ctf "r tqj kdku"vj g"wg"qh'etquudtcegu"cu"o gcpu"qh'ceeguu0"3; 480673\*g+\*3+"

40Á Y j cv'v{ r gu"qh'ceeguu"ecp"dg"wgf A"

Uxgtcn'v{ r gu"qh'ceeguu"ctg"r gto kvxf <

ÉÁrcf f gtu."uwej "cu'r qtcdrg."j qqm{qp."cwcej cdrg."cpf "uclty c{ ."3; 480673\*g+\*4+"

ÉÁuclt "qy gtu."3; 480673\*g+\*6+"

ÉÁtco r u'cpf "y cmy c{ u."3; 480673\*g+\*7+"cpf "

ÉÁlpgi tcn'r tghcdtlecvf "htco gu0"3; 480673\*g+\*8+"

50"Y j cv'ctg"vj g"ceeguu'tgs wktgo gpw'hqt"go r m{ ggu"gtgevpki "cpf "f kuo cpvki "uwr r qtvf "uechhqrnf uA"

Ghgevxs"Ugr vgo dgt"4."3; ; 9."go r m{ ggu"gtgevpki "cpf "f kuo cpvki "uwr r qtvf "uechhqrnf lpi "o wuv"j cxg"u'uehg"  
o gcpu"qh'ceeguu'r tqxkf gf "y j gp"u'eqo r gvgpv'r gtuqp"j cu'f gvto lpgf "vj g"hgculdkk{ "cpf "cpnf | gf "vj g"ukg"  
eqpf kkp0"3; 480673\*g+ "

## USE REQUIREMENTS

30""F qgu"vj g"ucpf ctf "r tqj kdk'cp{ "v{ r gu"qh'uechhqrnf uA"

Uj qtg"cpf "hgcp/vq"uechhqrnf u'ctg"uwlkv{ "r tqj kdkgf 0"3; 480673\*h+\*4+"

Cnuq."go r m{ ggu"ctg"r tqj kdkgf "htqo "y qtnkpi "qp"uechhqrnf u'eqxgtgf "y kj "upqy ."leg."qt"qyj gt"uwr r gt{ "  
o cvtken"/"gzegr v'q"tgo qxs"vj gug"uwducpegu0"3; 480673\*h+\*+ "

40""Y j cv'ctg"vj g"engctpegf f kucpegu"dgw ggp"uechhqrnf u'cpf "r qy gtrkpguA"

Vj g"ucpf ctf "f qgu'tgs wktg"ur gekhe"engctpegf f kucpegu0Ugg"r ci g"64"qh"vj ku'r wdrkecvkp"cpf "3; 480673\*h+\*8+"  
hqt"u'cdrg"tknkpi "vj qug"i kucpegu0

## FALL PROTECTION REQUIREMENTS

30""Y j cv'ctg"vj g"hm'r tqgevkvq'tgs wktgo gpw'hqt"cm'uechhqrnf uA"

Go r m{ gtu'o wuv'r tqxkf g"hm'r tqgevkvq'hqt"gej "go r m{ gg"qp"u'uechhqrnf "o qtg"vj cp"32'hggv'cdqxs"u'ny gt"  
ngxgr0"3; 480673\*i +\*h"

C"eqo r gvgpv'r gtuqp"o wuv"i gvto lpg"vj g"hgculdkk{ "cpf "uchgv{ "qh'r tqxkf lpi "hm'r tqgevkvq'hqt"go r m{ ggu"  
gtgevpki "qt"i kuo cpvki "uwr r qtvf "uechhqrnf u0"3; 480673\*i +\*+ "

40""Y j cv'ku'hm'r tqgevkvqA"

Hm'r tqgevkvq"lpenf gu'i wctf tcklu{ ugo u'cpf "r gtuqpcn'hm'cttguv'u{ ugo u0"i wctf tcklu{ ugo u'ctg"  
gzr nclpgf "dgnqy "lp"cpqyj gt"s wguvkvq0Rgtuqpcn'hm'cttguv'u{ ugo u'lpnf g"dqf { "dgnm"p qv"vj cv'dqf { "  
dgnm"y knipqv'dg"ceegr vcdrg"chgt"Lcpwct{ "h"3; ; : +."j ctpguugu."eqo r qpwpv'qh"vj g"j ctpguuldgn'uwej "cu"  
F gg/tkpi u'cpf "upcr "j qqmu."rkgndpgu."cpf "cpej qtcgi g"r qlpv0"3; 480673\*i +\*5+"

Xgtvlecn'qt"j qtk qpvcn'rkndpgu"o c{ "dg"wgf 0""3; 480673\*i +\*5+\*k/+\*kx+"



# SCAFFOLDS

"

Y j gp'y qtnkpi 'htqo 'cp'cgtkcn'khu'cwcej 'vj g'hcm'cttguv'u{ ugo 'vq'vj g'dqgo 'qt'dcungv'  
3; 480675\*d+\*4+\*x+ "

50Á J qy 'y kn'Knpqy 'y j cv'npf 'qh'hcm'r tqvewqp'vq'r tqxkf g'hqt'c'ur gekhe/v{ r g'qh'uechhqr A'  
Vj g'ej ctv'dgmuy 'kmwutcvgu'vj g'v{ r g'qh'hcm'r tqvewqp'tgs wktgf 'hqt'ur gekhe'uechhqr uO'

TYPE OF SCAFFOLD	FALL PROTECTION REQUIRED
Cgtkcn'khu"	Rgtuqpcn'hcm'cttguv'u{ ugo "
Dqcvuy ckpuø'ej ck"	Rgtuqpcn'hcm'cttguv'u{ ugo "
Ecvgpct{ 'uechhqr "	Rgtuqpcn'hcm'cttguv'u{ ugo "
Etcy nkpi "dqctf '*ej kengp'rcf f gt+ "	Rgtuqpcn'hcm'cttguv'u{ ugo . "qt'c'i wctf tckrlu{ ugo . "qt'd{ "c" 5 l6'kpej "f lco gvg' i tcdnkpg'qt'gs wxccrgpvj cpf j qrf " ugewtgn{ 'hcvpgpf "dgukf g'gcej 'etcy nkpi "dqctf "
Hqcv'uechhqr "	Rgtuqpcn'hcm'cttguv'u{ ugo "
Ncf f gt'lcen'uechhqr "	Rgtuqpcn'hcm'cttguv'u{ ugo "
P ggf ng'dgco "uechhqr "	Rgtuqpcn'hcm'cttguv'u{ ugo "
Ugrh/eqpvckpgf 'uechhqr "	Dqj 'c'r gtuqpcn'cf lwxcdng'uechhqr 'cttguv'u{ ugo "cpf "c" i wctf tckrlu{ ugo "
Ukpi ng/r qkp'v'cpf 'y q/r qkp'v'wur gpukqp'uechhqr u"	Dqj 'c'r gtuqpcn'hcm'cttguv'u{ ugo "cpf "c'i wctf tckrlu{ ugo "
Uwr r qtvf 'uechhqr "	Rgtuqpcn'hcm'cttguv'u{ ugo "qt'i wctf tckrlu{ ugo "
Cm'qj gt'uechhqr u'pqv'ur gekhgf "	Rgtuqpcn'hcm'cttguv'u{ ugo "qt'i wctf tckrlu{ ugo u'y cv'o ggv' vj g'tgs wktgf 'etkgtlc"

60Á Ecp'r gtuqpcn'hcm'cttguv'u{ ugo u'dg'wugf 'y j gp'y qtnkpi "qp'uechhqr kpi "cpf "cgtkcn'khuA'

Rgtuqpcn'hcm'cttguv'u{ ugo u'ecp'dg'wugf 'qp'uechhqr kpi 'y j gp'y gtg'ctg'pq'i wctf tckrlu{ ugo uO'  
3; 480673\*i +\*3+\*xk+ "

Wug'hcm'cttguv'u{ ugo u'y j gp'y qtnkpi 'htqo 'vj g'hqmy kpi 'v{ r gu'qh'uechhqr kpi <dqcvuy ckpu'ej ck. "  
ecvgpct{ . 'hqc'v'pggf ng'dgco . 'rcf f gt. "cpf 'r wo r 'lcen03; 480673\*i +\*3+ "

Wug'hcm'cttguv'u{ ugo u'cnq'y j gp'y qtnkpi 'htqo 'vj g'dqgo 'dcungv'qh'cp'cgtkcn'khu03; 480675\*d+\*4+\*x+ "

70Á Y j gp'ctg'dqj 'hcm'cttguv'cpf 'i wctf tckrlu{ ugo u'tgs wktgf A'

Hcm'cttguv'cpf 'i wctf tckrlu{ ugo u'o wv'dg'wugf 'y j gp'y qtnkpi "qp'ukpi ng/"cpf 'y q/r qkp'v'cf lwxcdng"  
uwur gpukqp'uechhqr u'cpf 'ugr/eqpvckpgf "cf lwxcdng'uechhqr u'y cv'ctg'uwur r qtvf "d{ "tqr guO'  
3; 480673\*i +\*3+ "

## FALLING OBJECT PROTECTION

30"Ctg'vj gtg'r tqvewqpu'lp'vj g'ucpf ctf u'hqt'qxgtj gcf 'hcnkpi "qdlgeuA'

Vq'r tqvew'go r mq{ ggu'htqo 'hcnkpi 'j cpf 'vqqu. 'f gdtku. "cpf 'qj gt'uo cm'qdlgeu. 'lpucm'vqgdqctf uO'uetggpu. "  
i wctf tckrlu{ ugo u. 'f gdtku'pgu. 'ecvej 'r mvhqtu u. 'ecpqr { 'uxwewtgu. "qt'dcttlecf guO'k'cf f kkp. "go r mq{ ggu"  
o wv'y gct'j ctf 'j cw03; 480673\*j +\*n+ ( '\*4+ ( '\*5+ "

"

"



## SCAFFOLDS

# OSHA COMPLIANCE DIRECTIVE COVERING SCAFFOLDS

Vj ku'ugevqap'eqpvc'pu'gzegtr u'it'qo 'cp'QUJ C'eqo r rncpeg'f'k'gevxg0Vj g'f'ghpk'k'apu'cpf 'f'w'gu'qh'eqo r g'v'p'v' r gtuq'p'cpf 's'w'ck'kf'f' r gtuq'p'ct'g'f'guet'kd'g'f'j' g'g'k'p'0'

QUI C"Kpwtwekq"ERN"4/3045"

Lcpwct{ '9.'3; ; 9"

F kge w t c v g " q h " E q p u t w e k q p "

UWDLGE V/ kpur gewqap'Rtqegf wtgu'hqt'Gphqtekp'i 'Uwdr ctv'N.'Uechhqrf u'Wugf 'kp'Eaputwekqap'"/4; 'EHT' 3; 480672/6760'

**Purpose.** Vj ku'kpux we'vqp'guvdrkuj gu'kpux ge'vqp'r tqegf wt gu'cpf'r tqxf gu'entkhe'vqp'q'gputw'g'wphqto "gphqtego gpv'qh'ij g'uechhqr'ucpf ctf u'hqt'eqput we'vqp0'

Ueqr g0"Vj ku'kpuntwekqp"cr r nkgu"QUJ C/y kf g"

Ego r r k p e g 'T w k g n p g u 'h q t 'U k i p k h e c p v I g p g t c n K u w g u 'K p 'U w d r c t v N O 'V j g 'h q m q y k p i 'l p h q t o c v k p 'r t q x k f g u' i w k c p e g 'y c v 'y k m 'c k f 'l p 'w p f g t u w p f k p i 'y j g 'q x g t c m 't g s w k g o g p w 'l p 'y j g 't g x k u g f 'w e p f c t f 'h q t 'u e c h q r u o'

FĖĖEqo r gvgpvRgtuqp0Cnĳ qwi j "Uwdr ctvN'r tq^ kf gu'go r nqĳ {gtu'y kĳ "hrgzkdks{\ 'kp'ĳ g'f guki p'qh'uechhqr u'cpf " yĳ g'ugngvqp'qh'hcmĳr tqgvevqp. 'ĳ g'go r nqĳ {gt'ku'tgs wktgf "q'ĳ} cxg'c'eqo r gvgpv'r gtuqp'y j q'ĳ cu'ĳ g'vclpki " cpf "gzzr gtlgpeg'pgeguuct { "q'ĳ'o cng'f gvgto kpvcvqp'u'cu'q'hcĳr tqgvevqp'kpvgi tk{\ 'qh'uechhqr u'cpf "ĳ cv'ĳ g' uechhqr 'ku'o ckvclpgf "cpf "wugf 'kp'c'uchg'o cpggt0'

c0ÁP QVG<QUÍ C'tgeqi pk gu'yj cv'cp'go r m{ gt'o c{ 'j cxg'o qtg'yj cp'qpg'eqo r gvgpv'r gtup'qp'yj g'y qtmukg"  
 v'f gcn'y kj 'f khtg'gpv'cur gew'qh'uechqrf kpi O'

d0ÁVj g'eqo r nkpepg'qh'hegt'uj cm'f gvgto kpg'vj g'kf gp'kw'f 'qh'vj g'eqo r gvgpv'r gtuqp'cpf 'cuuguu'vj g  
 "wcklpi 'cpf 'gzr gtupepg's wcklcp'kpu'qh'vj cv'r gtuqp'cv'cp'gctnf 'uwi g'qh'cp'f 'kpur gev'kpo'

e0ÁCrr gpf kZ 'C'qh'ij ku'f kgevkxg'r tqxkf gu'i wkf cpeg'hqt 'ij g'eqo r rkcpeg'qhhegt'cpf 'ij g'go r m{ gt'kp'  
gxcnwvpi 'eqo r rkcpeg'y kj 'tgs wkt go gpw'r gt vclpki 'q'eqo r gvgpv'r gt uqp'cpf 's wenkhef 'r gt uqp'  
tgur qpukdkrkkgu0'

40Á Uchg'Ceegui'cpf 'HmRtqgevkp'f wtkpi 'y g'Gtgevkp'cpf 'F kuo cpwtkpi 'qh'Uw r qt wgf 'Uechqnf u0Vj g'r tktq"  
ucpf ctf 'f kf 'pqv'tgs wtk'g'y cv'go r nq{ gtu'r tqxkf g'uchg'ceegui'cpf 'hml'r tqgevkp'f wtkpi 'gtgevkp'qt"  
f kuo cpwtkpi 'qr gtcvkpu0'

c0ÁQU C'tgeqi p k gu'j cv'eqo r kpeg'o c{ "pq'vdg'hcukdrg'f wtkpi "egt v k p'uechqnf "gtgevkp'cpf'f kuo cpvkpi " qr gtcvkpu0'J qy gxt. "go r m q {gtu'y kn'dg'tgs wktgf "q'f gvgto kpg'cv'gcej "uci g'qh'gtgevkp'cpf'f kuo cpvkpi " kh'uchg'ceegui'cpf'hm'r tqgvekap'ecp'dg'r tqxkf gf'cpf. "kh'ua. "q'eqo r n' 'y kj 'v'j g'r gt vkp pvt'gs wkt go gpvu0'

d0ÁVj g'go r mʃ gt'j cu'vj g tʒur qpukdks' 'vq'gxcnvcg'y j gʒj gt'r tqxf kpi 'ceeguu'cpf 'hcnlr tqvgevp'ht'  
go r mʃ ggu'ku'hcukdr'cpf 'uchet'k20'f qgu'pqv'etgcw'c'i tgcvg't j c| ctf 0"

\*3-<sup>AC</sup>"eqo r gvgpvr gtuqp'y j q'j cu'y g'hpqy ngf i g'cpf "gzr gtlgepeg"pgeguuct { "o wv'dg"wguf "q"o cng""  
y j g'cr r tqr tlcw'f gvgto kpcvqp0'

\*4-Ávj ku'gxcmvqvp'uj cml'pewf g'c'f gvgto kpcvqvp'yj gj gt.'cngt'pvcxgnf .r'ctv'cr'eqo r'rk'peg'o c{ 'dg'  
hgcukdng'cpf 'uchet'wpf gt'vj g'ek'ewo uvcpegu'r'tgugpv'cv'vj g'ukx0'

eÁ Rtxkxkqpu'hqt'uchg'ceeguu'f wtkpi 'gtgevkpi 'cpf'f'kuo cpvkpi 'qh'uw r qtvgf 'uechhqr'f u'ctg'eqpvckpgf 'kp"  
3:480673\*<sub>g-2</sub><sup>2</sup>; +0'

\*3-#<sup>1</sup>hkmw'qh'ij'g'go r m{gt'vq'j'cxg'ij'g'qr gtcvqp'lpklcm'gxcmw'gf'd{'c'eqo r gvgp'v'gtuqp'qt'hkmw'g'v'  
wug'hcm'r tqgcvqp'f'wtpi'gtgcvpi'cpf'f'kuo cpwipi'y'j'gp'k'ku'hgckdrg'cpf'uchgt'v'f'q'v'ku'c'  
xkqrcvqp'qh'3; 48673\*<sup>1</sup>i-#4-0'



# SCAFFOLDS

- \*4+"Vj g'Ego r rlcpeg'Uchgv' 'cpf 'J gcnj 'Qhleg't'uj cml'f qewo gpv'ur gekhle'y qtmukg'hcevqtu'cpf " eqo r rlcpeg'eqpukf gtcvkpu'gpeqwpvgtgf 'd{ 'y g'eqo r gvgpv'r gtup'y j gp'gxcnwv'pi 'y g' hgcukdkk'v' 'qhr' txxkf kpi 'uchg'ceegu'qt' hcm'r tqgev'kp'f' wtkpi 'y g'ug'qr gtcvkpu'hqt'wug'lp" f gxxqr kpi 'cpf'w'f'cvkpi 'Crr gpf'kz'D'qh'y g'ucpf'ctf'0'
- f0Á Vj g'EUI Q'uj cml'uegtv'clp'y j gyj gt'go r m{ ggu'gpi ci gf 'lp'gt'ge'v'pi 'cpf'f'luo cpv'kpi 'uechqrf u'j c'xg' dggp'v'clp'gf 'lp'y g'ug'cev'x'k'kgu'cpf 'lp'y g'j c' ctf u'ur gekhle'v'q'y g'v' r gu'qh'uechqrf u'lp'x'q'x'gf'0' V'clp'kpi 'i w'f'g'rk'p'gu'ctg'c'f'f'g'ug'f 'lp'Crr gpf'kz'F'qh'y g'ucpf'ctf'0'
- 50Á Hcm'Rtqgev'kp'Tgs w'k'go gpw'0Hcm'r tqgev'kp'ku'tgs w'k'gf 'hqt'go r m{ ggu'y j gp'y qtnkpi '32)'qt'o q'tg'cdq'xg" yj g'pgz'v'ny gt'rgx'gr'0'
- c0Á Vj g'go r m{ gt'j' cu'y g'qr'v'kp'.'lp'o cp{ 'lp'ucpegu.'qhr' txxkf kpi 'c'i w'ctf' tckl'u' u'go 'qt'qh'y c'xkpi 'gcej " go r m{ gg'w'ug'c'r' gtuqpcn'hcm'ctt'gu'v'u' u'go 0'Gzeg'v'kp'u'ctg'r' txxkf gf 'lp'3; 480673'i +3+' \*3+'y tqw'j 'x'k'c'cpf'ctg'f'uew'ug'f'dgm'y'0'
- d0Á Hcm'r tqgev'kp'o wuv'dg'r' txxkf gf 'qp'cml'ur r q'tvgf' 'cpf' u'ur gpf'gf 'uechqrf u'0' \*3+Á'p'o quv'lp'ucpegu'qp'ur r q'tvgf' 'uechqrf u.'y ku'y kni'dg'c'i w'ctf' tckl'u' u'go 0'
- \*4+'J qy g'x'gt.'y g'tg'o c' { 'dg'u'qo g'w'p'k'w'g'ukw'v'kp'u'lp'y j k'ej 'c'r' gtuqpcn'hcm'ctt'gu'v'u' u'go 'o c' { 'dg' p'gegu'ct { 'qp'c' u'ur r q'tvgf' u' u'go 0'lp' u'we'j 'ecugu'y g'tgs w'k'go gpw'lp'uge'v'kp'3; 480724'hqt'uchg' c'pej q'tci g'qh'y g'u' u'go 'o wuv'dg'o g'0'
- e0 Hqt' u'qo g'v' r gu'qh'uechqrf u' u'we'j 'cu'ukpi ng' r q'kp'v'q't'y q/r q'kp'v'cf' l'w'v'cd'ng' u'ur gpuk'qp'uechqrf u' u' d'q'y " c'i w'ctf' tckl'u' u'go 'cpf' r' gtuqpcn'hcm'r tqgev'kp'ctg'tgs w'k'gf'0' "
- f0Á Qp' u'qo g'v' r gu'qh'uechqrf u.'qpn' r' gtuqpcn'hcm'ctt'gu'v'u' u'go u'ctg'tgs w'k'gf 'ec'v'p'ct { . 'h'q'cv' 'cpf' p'ggf' ng' dgco 'uechqrf u.'d'q'cv'y c'kp'u'ej c'ktu.'t'q'qh'd'tc'eng'v'uechqrf u' c'p'f 'h'f' g't' l'c'eni'uechqrf u'0'Vj g'tgh'q'tg.'y g' go r m{ gt'o wuv'r' txxkf g'r' gtuqpcn'hcm'ctt'gu'v'u' u'go u'hqt' hcm'r tqgev'kp'qp'y g'ug'v' r gu'qh'uechqrf u'0'
- g0Á Y j gp'go r m{ ggu'ctg'lp'ucn'kpi 'u'ur gpuk'qp'uechqrf 'u'ur r q'tv'u' u'go u'go r m{ gtu'o wuv'r' txxkf g'hcm' r tqgev'kp'o g'g'v'pi 'y g'tgs w'k'go gpw'qh'Uwdr'ctv'0'/'Hcm'Rtqgev'kp'0'
- h0 Vj g'hcm'r tqgev'kp'v'q'dg'r' txxkf gf 'hqt'go r m{ ggu'y qtnkpi 'qp'c'g't'k'n'h'm'y kni'x'ct { 'c'ee'q't'f' kpi 'v'q'y g' v' r g'qh'c'g't'k'n'h'm'lp'x'q'x'gf'0'
- \*3+Á'U'qo g'h'm'u'ctg'lp'v'p'f'gf 'v'q'dg'w'ug'f'y k'j 'i w'ctf' tckl'u.'y j k'ng'q'y gtu'ctg'f' g'uk' p'gf 'v'q'dg'w'ug'f'd { " go r m{ ggu'r tqgev'gf'd { 'r' gtuqpcn'hcm'ctt'gu'v'u' u'go u'0'
- \*4+"Vj g'eqpugpuw'ucpf'ctf u' h'k'ug'f 'lp'P'qp'o c'p'f'cv'q't { 'Crr gpf'kz'E'qh'y g'ucpf'ctf 'lp'f'lec'v'y j cv' hcm'r tqgev'kp'y q'w'f'dg'c'r r tqr' t'c'v'g'hqt'r' c't'v'ew'ct'v' r gu'qh'c'g't'k'n'h'm'0'

## COMPETENT/QUALIFIED PERSON

W'p'f'gt'y g'uechqrf 'ucpf'ctf u.'\$eqo r gvgpv'r gtup'u'\$'cpf '\$s w'c'h'lg'f'r' gtuqpu'\$'j c'xg'ur gekh'lg'f't'gur qpukdkk'kgu'0' Vj ku'Crr gpf'kz' u'wo o c'tk' gu'y g'r' txxk'k'kp'u'lp'Uwdr'ctv'N'w'ukpi 'y q'ug'v'g'to u'0'

### I. Competent Person.

#### A. Definition.

\$Eqo r gvgpv'r gtup'u'\$'ku'f'gh'p'gf'cv'4; 'EHI'3; 480672\*d+'cu'q'pg'y j q'ku'ecr'cd'ng'qh'k'f'gp'v'h'k'pi 'gz'k'v'pi 'cpf' " r'tgf'k'ev'cd'ng'j' c' c'tf u'lp'y g'u'w't'q'w'p'f'kpi u'q't'y qtnkpi 'eqp'f'k'k'kp'u'y j k'ej 'ctg'w'p'uc'p'k'ct { . 'j' c' c'tf q'w'u." 'q't'f'c'pi g't'q'w'u'v'q'go r m{ ggu'c'p'f'y j q'j' cu'c'w'j q'tk'c'v'kp'v'q'v'c'ng'r' t'qo r v'e'q'tt'g'ev'x'g'o g'cu'w'gu'v'q'g'rk'o k'p'cv'g'y go 0' 4; 'EHI'3; 480672\*d+0' "

30" C'eqo r gvgpv'r gtup'u'o wuv'dg'np'qy ng'f' i g'cd'ng'cd'q'w'y g'tgs w'k'go gpw'qh'y ku'ucpf'ctf' 'cpf'j' c'xg' u'w'h'k'k'p'v' v'clp'kpi 'qt'np'qy ng'f' i g'v'k'f'gp'v'h' { 'cpf'eq'tt'g'ev'j' c' c'tf u'g'p'eq'w'p'v'gt'gf'lp'uechqrf'y q'tn'0'



# SCAFFOLDS

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c0Á Hqt "y g'r wtr qugu'qh'y ku'Uwdr ctv."c"eqo r gvgpv'r gtuqp"o wuv'j cxg'j cf "ur gekhe"tclpki "kp"cpf "  
" dg'npqy rgi g'cdrg'tgi ctf lpi "y g'utwewtcnlpvgi tkl "qh'uechqrf u'cpf "y g'r tgeg'f w'gu'pggf gf "vq"  
o clpvcip "y go 0'

d0Á Hqt "gzco r rg."c"eqo r gvgpv'r gtuqp"o wuv'dg'cdrg'vq"gxncwv'g'y g'ghgeu'qh'uej "r qvgpvcml "f co ci g/  
ecwulpi "qeewtgpegu'cu'c'f tqr r gf "rcf "qt"c'v'wem'ldcenlpi "lpvq"c'lw r qt v'rgi 0'

40"" D{ "f ghkpkqp."y g'eqo r gvgpv'r gtuqp"o wuv'j cxg'j g'cwj qtkv "vq'veng'r tqo r v'eqtgexg'o gcuwgu'vq'cdc'g"  
r qvgpvcml "j c| ctf qwu'y qtmukg'eqpf klqpu0Vj g'gzgtelug."qt'rcen'y gtgqh'qh'y ku'cwj qtkv "o c{ "tgs wgpv"  
dg'y g'f gekf lpi "hcevq'tp"=3uugulpi "y j gyj gt"r ct'ewwt'lpf kxkf wcnlu kp'hcev'c'eqo r gvgpv'r gtuqp"wpf gt"  
Uwdr ctv'N0'

## B. Duties of the Competent Person.

30Á 4; "EHT"3; 480673\*d+\*32+0Qpn "c"eqo r gvgpv'r gtuqp"ecp'r gto k'y g'o qf khecqrp"qh'uechqrf "eqo r qpgpvu"  
o cpwcewtgf "d{ "f khtgtpv'o cpwcewtgtu'y j gp'y g{ "ctg'wugf "lp'eqplwepkqp'y kj "gcej "qy gt."cpf "o wuv"  
gpwutg'y cv'y g'tguwulpi "uechqrf "ku'utwewtcml "uqwpf 0'

40Á 4; "EHT"3; 480673\*d+\*33+0Uechqrf "eqo r qpgpvu"o cf g'qh'f kuuko knt"o gvcn'ctg'pqv'vq"dg'wugf "vqi gyj gt"  
wprgu'c'eqo r gvgpv'r gtuqp"j cu'f gvgto kpgf "y cv'i cixcple"cevqrp"y kn'pqv'tgf weg'y g'"ut gpi y "qh'cp{ "  
eqo r qpgpv'vq"c'rgxgndgmjy "y cv'y j lej "ku'tgs wktgf "d{ "3; 480673\*c+\*3+.k0"ecr cdrg'qh'lw r qt v'kpi ".y kj qww"  
hcnwtg."ku'qy p'y gki j v'cpf "cv'rgcu'hqwt "ko gu'y g'o czko "wo "lpvpgf gf "hcf "cr r rkgf "qt"tcpuo kwgf "vq'k0'

50Á Vj gug'y q'r tgeg'f lpi "r tqxkukpu'tghrev'y cv'wprgu'cf gs wcv'r tgecwkpup'ctg'vengp."cp'wpuchg'eqpf klqp"  
eqwf "dg'etgcvf "d{ "y g'lpvto lpi rpi "qh'f khtgtpi "uechqrf "eqo r qpgpvu."qt"d{ "y g'qeewtgpeg'qh'i cixcple"  
cevqrp0'

c0Á Ku'uechqrf "eqo r qpgpvu'qh'f khtgtpv'o cpwcewtgtu'qt"qh'f khtgtpv'o gvcn'ctg'wugf "vqi gyj gt."y g"  
eqo r gvgpv'r gtuqp"o wuv'ectghwn "gxncwv'g'y g'uechqrf "vq'gpwutg'utwewtcn'luqwpf pguu'cpf "y g"  
" cdugpeg'qh'i cixcple"cevqrp0'

d0Á QUI C"gzr gew'c"eqo r gvgpv'r gtuqp"vq"dg'cdrg'vq"lf gpvkh "y g'ecwugu'cpf "uki pkhecpeg'qh'cp{ "  
f gvgtkqtcvqp"r tugpvl'p'uechqrf "eqo r qpgpvu'cpf "veng'y g'pgeguuct{ "eqttgexg'cevqrp0'

e0Á Y kj "tgr gev'vq"dqj "y gug'kuwgu."y g'o cpwcewtgt"u'tgeqo o gpf cvkpu'uj qwf "dg'tgxky gf "cpf "o c{ "  
dg'tgrkgf "wr qp"d{ "y g'eqo r gvgpv'r gtuqp0'

60Á 4; "EHT"3; 480673\*f+\*5+\*3+tgswktgu'y cv'f kt gev'eqppgevkpu'qp'uwur gpukqp"uechqrf u'dg'gxncwv'gf "d{ "  
c"eqo r gvgpv'r gtuqp"dghtg'y g'uechqrf "ku'wugf "vq'eqphko "y cv'y g'utwcegu'ctg'ecr cdrg'qh'lw r qt v'kpi "  
y g'hqcf u'vq"dg'ko r qugf 0'

c0Á QUI C"cpvkr cvgu'y cv'eqo r rkepeg'y kj "y ku'r tqxkukp"y kn'gpwutg'y cv'tqgh'qt'hqqt"fgemu'ctg'ecr cdrg"  
qh'lw r qt v'kpi "y g'hqcf u'vq"dg'ko r qugf "cu'y gni'cu'gpwutlpi "y cv'y qug'eqppgevkpu'ctg'r tqr gtn{ "  
f guki pgf "cpf "o cf g0'

d0Á Vj g'eqo r gvgpv'r gtuqp"o wuv'j cxg'j g'cdkxv "vq'lf gpvkh "cp{ "r tqdrgo u'y kj "y g'f kt gev'eqppgevkpu'cpf "  
y g'cwj qtkv "vq"o cng'cp{ "pgeguuct{ "eqttgexg'cevqrp0'

70Á 4; "EHT"3; 480673\*f+\*32+tgswktgu'y g'eqo r gvgpv'r gtuqp"vq'lpur gev'cm'tqr gu'wugf "lp'uwur gpukqp"  
uechqrf u'hqt"fgheu'r tktq"vq"gej "y qtm'uj kn'cpf "chgt"gxgt{ "qeewtgpeg'y j lej "eqwf "chgev'c'tqr gu"  
lpvgi tkl 0'

c0Á Rctci tcr j "f+\*32+fggu'qp"vq'tgs wktg'y g'tgr mego gpv'qh'f co ci gf ."hknpgf."qt"cdtcf gf "tqr g."cu'y gni'cu"  
vq'ur gekh "qy gt"eqpf klqpu'tgs wktlpi "tgr mego gpv0'

d0Á Vj ku'r etci tcr j "cf qr w'y g'CP UKucpf ctf "r tqxkukpu'f guetklpi "f co ci gf "cpf "f ghgev'xg'tqr g'cu"  
tgr tugpvlpi "f qqf "lpf wut{ "r tceveg0'Ugg'CP UKC320 /3; : : . "Rct'80020'

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# SCAFFOLDS

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80Á4; "EHT"3; 480673\*1+3: +0"C"eqo r gvgpv'r gtuqp'ku'cnuq'tgs wktgf "v"q'gxcnwcvg'o wnk'qlpv'uwr gpubqp"  
" uechhqrn'u'v'f'gvto kpg'y j g'v'gt'v'g'f'p'ggf'v'q'dg'v'g'f'qt'q'v'gty kug'ugewt'gf'v'q'r'tgxgpv'v'j go 'htqo 'uy c'f'kpi "

90Á4; "EHT"3; 480673\*2+3: +40"Hqt"go r m'f'ggg'gt'gevkpi "qt'f'kuo cpvkpi 'uwr r q'v'g'f'uechhqrn'u'c'eqo r gvgpv'"  
" r gtuqp'y kn'j'cxg'v'q'f'gvto kpg'y j g'hgcukdkk'v'cpf'uehgv'q'h'wukpi 'c'\$uchg'o gcpu'qh'ceeguu.\$'dcugf'qp.'hqt'"  
" gzco r ng.'ukg'eqpf'kkqpu'cpf'v'j'g'v'f'r'g'q'h'uechhqrn'dgkpi "gt'gevgf'qt'f'kuo cpv'g'f'0'

c0ÁQU C"j cu'f'gvto kpgf'v'j'cv'y j k'g'v'j'gt'g'o c'f'dg'uqo g'ukwcvkpu'y j g'g'r'tq'xkf'kpi 'uehg'ceegui'hqt'"  
" uechhqrn'gt'gevtu'cpf'f'kuo cpv'gtu'ku'f'k'h'ew'go r m'f'gtu'y j q'ectghwn'f'gxcnwcvg'y gkt'uechhqrn'"  
" qr'gtcvkpu'ecp'r'tq'xkf'g'uehg'ceegui'qt.'cv'hcuv'o k'p'o k'g'go r m'f'gg'g'zr'quwt'g'v'j'c'f'ctf'u0' "

d0ÁVj g'eqo r gvgpv'r gtuqp.'v'j'gt'ghqtg.'y kn'dg'g'zr'gevgf'v'q'f'gvto kpg'y j g'er'r'tqr'tk'v'g'o gcpu'qh'"  
" ceegui'hqt'gt'gevtu'f'kuo cpv'gtu'dcugf'qp'c'ukg'ur'ge'k'k'c'pcn'f'uku'qh'y'g'y qtn'r'ceg'eqpf'kkqpu0'

: 0Á4; "EHT"3; 480673\*1+5+0Vj g'eqo r gvgpv'r gtuqp'ku'cnuq'tgs wktgf "v"q'k'pur'gev'y j g'uechhqrn'cpf'ku'eqo r qpgpw'"  
" hqt'x'k'udng'f'ghew'dghqtg'gcej 'y qtn'uj kn'cpf'ch'gt'cp'f'q'ewt'gpeg'y j lej 'eqwf'ch'ge'v'y j g'uechhqrn'j'"  
" utwewt'cn'k'p'gi'tk'f'0'

c0ÁJ qy g'xgt.'qp'xgt'f'rti'g'htco'g'u'f'ungo u.'v'j'g'k'pur'gevkp'ku'qpn'f'tgs wktgf'hqt'ct'gcu'v'q'dg'wugf'v'j'cv'y qtn'"  
" uj kn'd'f'go r m'f'ggg'0'

d0ÁVj g'ucpf'ctf'f'qgu'pqv'tgs wktg'y'cv'y j g'eqo r gvgpv'r gtuqp'f'qewo gpv'y j g'k'pur'gevkp'h'pf'kpi u0'

; 0Á k'p'cf'f'kkqp.'4; "EHT"3; 480673\*1+6+2zk'+tgs wktgu'y'cv'cp'f'o'c'pk'c'qt'u'f'p'v'g'v'k'f'qr'g'dgkpi 'wugf'hqt'v'qr'"  
" tcku'qt'o'k'f'tcku'dg'k'pur'gevgf'd'f'v'j'g'eqo r gvgpv'r gtuqp'cu'q'h'ng'p'cu'p'geguuct'f'f'ckn'f'cpf'q'f'r'tk'q't'v'q'wug'+v'q'"  
" g'puwt'g'y'cv'k'eqp'k'p'v'g'u'q'o'ggv'y j g'ut'gpi'v'j'tgs wktgo g'pu'qh'4; "EHT"3; 480673\*1+0'

320"4; "EHT"3; 480673\*1+9+0C eqo r gvgpv'r gtuqp's'w'ck'k'g'f'k'p'uechhqrn'gt'gevkp.'o'q'xkpi'f'kuo cpvkpi'qt'"  
" " cngt'cvk'p'ku'tgs wktgf'v'q'uwr'gt'x'kug'cpf'f'k'ge'v'cm'uechhqrn'gt'gevkp.'o'q'xkpi'."cngt'cvk'p'qt'f'kuo cpvkpi'"  
" " cev'x'k'k'gu0'

c0ÁUwej 'cev'x'k'k'gu'ctg'v'q'dg'r'gthqto'gf'qpn'f'd'f'v'ck'p'g'f'cpf'g'zr'gt'k'p'egf'go r m'f'ggg'ug'gevgf'd'f'v'j'g'"  
" " eqo r gvgpv'r gtuqp0'

d0" Vj g'ucpf'ctf'o'cng'ue'ngct'v'j'cv'hqt'v'j'gug'cev'x'k'k'gu.'v'j'g'eqo r gvgpv'r gtuqp'o'wuv'cewcm'f'dg'qp'ukg'"  
" " cpf'f'k'gevkpi'v'j'g'y'qtn0'

330Á4; "EHT"3; 480673\*1+4+0Hqt'gcej 'uechhqrn'gt'gevkp'cpf'f'kuo cpvkpi'qr'gtcvk'p.'v'j'g'eqo r gvgpv'r gtuqp'y kn'"  
" j'cxg'v'q'f'gvto kpg'y j g'hgcukdkk'v'q'h'r'tq'xkf'kpi'f'cm'r'tq'v'gevkp0'

c0ÁGo r m'f'gtu'o'wuv'r'tq'xkf'g'h'cm'r'tq'v'gevkp'v'q'uechhqrn'gt'gevtu'cpf'f'kuo cpv'gtu'w'p'rgui'v'j'gt'g'ct'g'x'ckf'"  
" " t'gcu'pu'pqv'v'q0'

d0""Vj g'ucpf'ctf'f'qgu'pqv'tgs wktg'y'cv'y j g'g'ug't'gcu'pu'dg'f'qewo gpv'g'f'0'

e0" Ego r r'k'peg'q'h'k'egtu'uj'cm'f'gxcnwcvg'y'g'go r m'f'gt'u'enclo'u'q'h'w'p'hgcukdkk'v'qt'f't'gcv'gt'j'c'f'ctf'cpf'"  
" " f'qewo gpv'qp'ukg'q'dug't'x'cvk'pu'cpf'k'p'v'gt'x'k'g'y'v'j'g'eqo r gvgpv'r gtuqp'cpf'q'v'j'gt'ch'gevgf'"  
" " y'qtn'gtu't'g'nc'v'kpi'v'q'cp'f'uwej'enclo'0'

340'4; "EHT"3; 480673\*1+34+0F wtkpi 'uqto u'qt'j'k'j'y'k'pf'u.'y'qtn'q'p'qt'htqo 'uechhqrn'u'ku'r'tq'j'k'k'g'f'w'p'rgui'c'"  
" " eqo r gvgpv'r gtuqp'j'cu'f'gvto kpgf'v'j'cv'k'ku'uehg'cpf'v'j'cv'go r m'f'ggg'qp'v'j'g'uechhqrn'ct'g'r'tq'v'gevgf'd'f'c'"  
" " r'gtu'q'p'cn'h'cm'f'ctt'g'u'u'f'ungo'qt'y'k'pf'f'uet'ggpu0'J'k'j'y'k'pf'u'ct'g'cp'f'y'k'pf'eqpf'kkqpu'y'cv'f'x'gtu'gn'f'ch'ge'v'y'g'"  
" " u'cd'k'k'v'q'h'y'g'uechhqrn'qt'v'j'g'uehg'v'q'h'y'g'go r m'f'ggg'0'T'cv'j'gt'y'cp'ug'v'kpi'c'ur'ge'k'k'le'y'k'pf'ur'ggf'f'ko'k'v'"  
" " v'j'g'ucpf'ctf'f'k'ge'w'v'j'g'eqo r gvgpv'r gtuqp.'ch'gt'c'pcn'f'uku'qh'cm'r'gt'v'k'p'p'v'k'p'q'to'cvk'p.'v'q'g'puwt'g'y'cv'y'g'"  
" " uechhqrn'ku'uehg'w'p'f'gt'j'k'j'y'k'pf'eqpf'kkqpu.'v'j'cv'r'tq'v'ge'v'x'g'o'gcuwt'gu'j'cxg'd'ggp'k'p'unk'w'g'f'."cpf'v'j'cv'y'qtn'"  
" " o'c'f'uehg'f'dg'f'qpg'htqo'v'j'g'uechhqrn'0'



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## C. Compliance Issues for Competent Persons.

30'C'EUI Q'u'f gvgto kpcvqp'qh'y g'go r m{gt}u'eqo r rncpeg'y kj 'tgs vkt go gpw'kpxqmkpi 'c'eqo r gvgpv'r gtuqp'y kni"  
" kpxqmk'lwfi go gpw'qp'eqo r rgz 'kuwgu0Vj g'eqo r rncpeg'qh'hegt'o wuv'gxcnvcg'cm'y g'hcevqtu'cuuqekvcg'y kj '"  
" eqo r gvgpv'r gtuqp'tgs vkt go gpw0'

40ÁVj g'f wkgu'qh'y g'eqo r gvgpv'r gtuqp'o c{ 'dg'uj ctgf 'co qpi . 'ugxgtcnl'pf kxkf wcn0'

c0Á qy gxgt. 'gcej 'o wuv'r quugu'y g's wcn'hecvqp'u't grvcg' 'q'j ku'qt'j gt'ctgc'qh'tgur qpukdkkx{ . 'cpf 'gcej '"  
" o wuv'j cxg'y g'cdkx{ 'cpf 'cwj qtkx{ 'q'vcng'eqtgcvxg'cevqp0'

ktÁHqt'gzco r rg. 'cp'kpf kxkf wcn'f guki pcvgf 'cu'y g'eqo r gvgpv'r gtuqp'y g'gtgevkpi 'qh'y g'uechqrf '"  
" o ki j v'pqv'dg'y g'uco g'kpf kxkf wcn'y j q'kpur gew'y g'uechqrf 'dghqtg'gcej 'y qtm'uj kn0'

kkÁCnq. 'f khtgtpv'kpf kxkf wcn'o c{ 'dg'f guki pcvgf 'eqo r gvgpv'r gtuqp'u'f gr gpf kpi 'qp'y g'v'f r g'qh'"  
" uechqrf 'wugf 0'

d0ÁCp'kpf kxkf wcn'y j q'j cu'eqo r gvgpv'r gtuqp'tgur qpukdkkxgu'hqt'uw'r r qtv'g'f 'uechqrf u'y qwf 'pqv'"  
" pggf 'q'j cxg'npqy rgi g'qh'tgs vkt go gpw'tgrvcg' 'q'uw'r gpf gf 'uechqrf u'qp'y g'y qtm'ukg. 'kh'"  
" cpqy gt'kpf kxkf wcn'y gte'cuuki pgf 'y qug'tgur qpukdkkxgu0'

50ÁVj g'go r m{gt'o c{ 'tgn' 'qp'y g'g'zr gtv'ug'qh'r gtuqp'u'y j q'ctg'pqv'go r m{gg. 'uwej 'cu'eqpuwncpw'"  
cpf 'uechqrf 'u'ugo u'tgrtgugpvcxgu. 'q'f guki p. 'gtgev'cpf 'f kuo cpvg'uechqrf u0'

c0ÁVj ku'o c{ 'dg'ceegr vcdrg'kh'y cv'kpf kxkf wcn'cewcm{ 'uw'r gtxkugu'y g'y qtm'dgkpi 'f qpg'cpf 'j cu'"  
" cwj qtkx{ 'q'eqtgcv'j c{ ct f u0Cf f kxqpcn{ . 'eqptcevqtu'qp'c'o wnk'go r m{gt'ukg'o c{ 'tgn' 'qp'"  
" go r m{gg'qh'y g'i gpgtcn'eqptcevqt'qt'cpqy gt'uwdeqptcevqt 'q'hw'kn'eqo r gvgpv'r gtuqp'"  
" tgr qpukdkkxgu. 'kh'cn'y g's wcn'hecvqp'etkgtk'ctg'o gv0'

d0ÁVj g'eqo r rncpeg'qh'hegt'y qwf 'pggf 'q'f gvgto kpg'y j gyj gt. 'hqt'y g'ur gekk'ukg'cpf 'qr gtcvqp'kp'"  
" swgukp. 'y g'go r m{gt'j cu'ghgevxgn{ 'eqo r rkgf 'd{ 'f guki pcvkpi 'cpqy gt'go r m{gt'u'go r m{gg'cu'y g'"  
" eqo r gvgpv'r gtuqp0'

60ÁY j gp'o qtg'y cp'qpg'go r m{gt'gtgew'cpf 'wugu'c'uechqrf . 'y g'eqo r rncpeg'qh'hegt'y kn'pggf 'q'"  
" 'f gvgto kpg'y j q'y g'eqptqm'pi 'cpf 'g'zr qulpi 'go r m{gtu'ctg'cpf 'f qewo gpv'hcevqtu'tgrvcg' 'q'"  
" " QUI C'u'o wnk'go r m{gt'ekcvqp'r qrk{ 0'

c0"Vj g'eqo r rncpeg'qh'hegt'o wuv'gz gtekug'r tqhgu'kqpcn'lwfi o gpv'lp'y gug'ukwcvqp'u'cpf 'c'xctkgv{ 'qh'"  
" ecug/d{/ecug'hcevqtu'y kn'pggf 'q'dg'eqpukf gtgf 0'

d0Áphqto cvqp'eqpvkpgf 'lp'y g'i gpgtcn'eqptcevqt'u'cpf 'y g'uwdeqptcevqtu'uchgv{ 'r tqi tco u'cpf '"  
" eqptcev'tgs vkt go gpw. 'cu'y gm'cu'eqr lgu'qh'uchgv{ 'o ggv'pi 'o kpwgu. 'y tkwgp'eqttgur qpf gpeg'"  
" dgvy ggp'eqptcevqtu. 'cpf 'go r m{gt'cpf 'go r m{gg'kpvgtxky u'y kn'dg'j grr hw'lp'f gvgto klp'pi '"  
" tgr qpukdkkx{ 'hqt'xkqrcvqp0'

## II. Qualified Person.

### A. Definition.

C's wcn'kxgf 'r gtuqp'o gcpu'\$qpg'y j q. 'd{ 'r quugu'kq'qh'c'tgeqi pl'gf 'f gi tgg. 'egt v'hecvg. 'qt'r tqhgu'kqpcn'  
ucpf kpi . 'qt'd{ 'gzv'puk'g'npqy rgi g. 'tcl'kpi . 'cpf 'g'zr gtlgpeg. 'j cu'uweegu'lw'wm{ 'f go qp'utcv'g' 'j kulj gt"  
cdkx{ 'q'uq'rk'g'qt'tgu'rk'g'r tqdrgo u'tgrvcg' 'q'y g'uwldge'v'o cwgt. 'y g'y qtm'qt'y g'r tqlgex\$04; 'EHT"  
3; 480672\*d-0'



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## B. Duties.

- 30Á Ugevkp"4; "EHT"3; 480673\*c+\*8+†tgs wktgu"j cv'uechhqrnf u'dg" f guki pgf "d{ "c"s wrkhkgf "r gtuqp0"  
P qp/o cpf cvqt{ "Crr gpflz "C"eqpvckpu"gzco r ngu"qh'etkgtlc"vq"i wkf g"cp"go r mq{ gt"lp" f guki plpi "uechhqrnf "  
u{ ugo u0Y kj "egtckp"gzegr vkpu'ecttkgf "qxtg"ltqo "vj g'r tgxkqwu'twng."vj g's wrkhkgf "r gtuqp" f guki plpi "vj g"  
uechhqrnf "pggf "pqv'dg"cp" gpi kpggt0Vj qug"gzegr vkpu'ctg'hqwpf "lp"vj g'hqmqy lpi "r tqxkukqpu<"  
c0Á 3; 480673\*f+\*5+\*40Uechhqrnf "eqppgevkpu'hqt"o cuqpu)cf lwuxcdrg"o wmr qkp'vuwur gpukqp"uechhqrnf u'o wuv'dg"  
f guki pgf "d{ "cp" gpi kpggt "\$gzr gtlgpegf "lp"uwej "uechhqrnf "f guki p0\$"  
d0Á 3; 480674\*c+\*32+."d+\*32+."\*3+\*": +0Rqrng"uechhqrnf u'qxtg"82)"wdg"cpf "eqwr rgt"uechhqrnf u'qxtg"347)"cpf "  
qwtli i gt"uechhqrnf u'o wuv'dg" f guki pgf "d{ "c"\$tgi kvgtgf "r tqhguakpcn" gpi kpggt"\$"cpf "eqpwtwexgf "cpf "hqcf gf "  
lp"ceeqtf cpeg'y kj "vj cv'f guki p0Crr gpflz "C"qh'vj g'ucpf ctf "eqpvckpu"gzco r ngu"qh'etkgtlc"vj cv'y kn'gpcdrng"  
vj g"go r mq{ gt"vq"eqo r n{ "y kj "vj g'f guki p"cpf "hqcf lpi "tgs wktgo gpwu0"  
e0Á 3; 480674\*e+\*8+0Hcdtckevgf "ltco g"uechhqrnf u'qxtg"347"hgglp"j gki j v'cdqxs"vj gkt"dcug"r rvg"o wuv'dg" f guki pgf "  
d{ "c"\$tgi kvgtgf "r tqhguakpcn" gpi kpggt"\$"cpf "eqpwtwexgf "cpf "hqcf gf "lp"ceeqtf cpeg'y kj "vj cv'f guki p0Kp"  
cf f kkkp."dtcengwu" wugf "vq"uwr r qt v'ecp'vqxtg gf "hqcf u'qp"uwej "uechhqrnf u'vj cm'dg" wugf "qpn{ "vq"uwr r qtv"  
r gtuqppgn'wprguu"vj g"uechhqrnf "j cu'dggp" f guki pgf "hqt"qj gt"hqcf u'd{ "c"\$s wrkhkgf "gpi kpggt"\$"cpf "ku'dwkn"vq"  
y kj ucpf "vj g"vkr lpi "hqtegu"i gpgtcvgf "d{ "uwej "hqcf u0Ugg"4; "EHT"K 480674\*e+\*7+\*33(3+0"  
40Á Qjy gt" f guki pu'tgs wktgf "d{ "c"s wrkhkgf "r gtuqp"lpennf g"vj g'hqmqy lpi <"  
c0Á 4; "EHT"3; 480674\*2+\*4+\*3+†tgs wktgu"j g'uwr r qtvkpi "tqr g"qp"ukpi ng/r qkp'v'cf lwuxcdrg"uwur gpukqp"uechhqrnf u'dg"  
ngr v'xgt v'ecn'wprguu."co qpi "qjy gt"tgs wktgo gpwu."vj g'tki i lpi ."j cu'dggp" f guki pgf "d{ "c"s wrkhkgf "r gtuqp0"  
d0Á 4; "EHT"3; 480674\*r+\*3+†tgs wktgu"j cv'r r v'htto u'qp"vy q/r qkp'v'cf lwuxcdrg"uwur gpukqp"uechhqrnf u'\*uy lpi "uvcu gu+ "  
uj cm'pqv'dg"o qtg"vj cp"58"lpej gu'y kf g'wprguu" f guki pgf "d{ "c"\$s wrkhkgf "\$"r gtuqp"vq"r tggxgpv'wpuwcdrg"  
eqpf kkkpu0"  
P QVG<"Rctei tcrj "tr+\*n" f qgu"pqv'cr r n{ "vq"vy q/r qkp'v'cf lwuxcdrg"uwur gpukqp"uechhqrnf u'wugf "cu'o cuqpu)qt"u'vqpg"  
ugwgtu)uechhqrnf u0"Ugg"4; "EHT"3; 480674\*s+0"  
e0Á 4; "EHT"3; 480676\*c+†tgs wktgu"j g"go r mq{ gt"vq"j cxg"geej "go r mq{ gg'y j q'r gthqto u'y qtn'ly j krg"qp" c"uechhqrnf "  
vckpgf "d{ "c"r gtuqp"s wrkhkgf "lp"vj g'uwdlgev'o cwtg"vq"tgeqi pl g'vj g'j c| ctf u'cuuqekcvgf "y kj "vj g'v{ r g"qh"  
uechhqrnf "dgkpi "wugf "cpf "vq"wpf gtucpf "vj g'r tqegf wtu"vq"eqpv'qnr'qt"o kpk0 k g'vj qug"j c| ctf u0"

## TRAINING REQUIREMENTS

QUJ C"j cu"qwndpgf "ur gekhle"tgs wktgo gpwu'hqt"go r mq{ gg"vckplpi "lp"vj g"uechhqrnf "ucpf ctf 0Vj g"go r mq{ gt"o wuv'gputg"  
vj cv'geej "go r mq{ gg'y j q'r gthqto u'y qtn'ly j krg"qp" c"uechhqrnf "ku"vckpgf "d{ "c"r gtuqp"s wrkhkgf "lp"vj g'uwdlgev'o cwtg"vq"  
tgeqi pl g'vj g'j c| ctf u'cuuqekcvgf "y kj "vj g'v{ r g"qh"uechhqrnf "dgkpi "wugf "cpf "vq"wpf gtucpf "vj g'r tqegf wtu"vq"eqpv'qnr'qt"  
o kpk0 k g'vj qug"j c| ctf u0"

Chgt"lpkkn'vckplpi "j cu'dggp"eqo r ngvgf."k/ku"i qgf "kf gc"vq"eqpf wev'tghg'uj gt"uchgv{ "vckplpi "uguakpu"vq"gpwtg"vj cv"  
y qtngtu'ctg"cy ctg"qh'vj g'j c| ctf u'cuuqekcvgf "y kj "uechhqrnf "wug0Qpg"o g'j qf "qh'eqpf wev'kpi "uwej "vckplpi "ku"vj g'wug"qh"  
Vqqndqz"Vcmu0"

### 1. Basic Requirements

Vj g"go r mq{ gg/vckplpi "r tqi tco "o wuv'lpennf g"cv'hcuv"vj g'hqmqy lpi "ctgeu."cu'cr r r'ecdrng<"

c0Á Vj g'pcwtg"qh'cp{ "grgvtckn'j c| ctf u."hcn'j c| ctf u'cpf "hcnkpi "qdlgev'j c| ctf u'lp"vj g'y qtn'ictgc0"

"  
"

"



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"  
"

d0Á Vj g'eqttgev'r tqegf wtgu'hqt'f gcrkpi 'y kj 'grgevtkecnj c| ctf u'cpf 'hqt'gtgev'pi . 'o clpvcłpłpi 'cpf "  
f kucuugo drkpi 'y g'hcmlr tqvgev'kp'u{ ugo u'cpf 'hcmlpi 'qdlgev'r tqvgev'kp'u{ ugo u'dgkpi 'wugf 0'

e0Á Vj g'r tqr gt 'wug'qh'yj g'uechhqr'f . 'cpf 'y g'r tqr gt'j cpf rłpi 'qh'o cvgtkcm'qp'yj g'""uechhqr'f 0'

f 0Vj g'o czko wo 'łpvpgf gf 'mqcf 'cpf 'y g'mqcf /ectt{łpi 'ecr cekłgu'qh'yj g'uechhqr'f u'wugf 0'

g0'Cp{ 'qyj gt'r gtłpgpv'tgs włtgo gpw'qh'yj ku'uwdr ctv0'

## 2. Special Training

Vj g'go r m{gt'gt'o wuv'j cxg"gej "go r m{gg'y j q'ku'3pxqrłgf "łp"gtgev'pi 'f kucuugo drkpi . 'o qłkpi . 'qr gtcvłpi . "  
tgr cłłkpi . 'o clpvcłpłpi . "qt'łpur gev'pi "c"uechhqr'f 'tclłpgf 'd{ 'c"eqo r gvpgv'r gtuqp"q'tgeqi płł g'cp{ 'j c| ctf u"  
cuuqekcv'f 'y kj 'y g'y qtnłk'p's wguv'kp . 'y g'tclłpłpi 'j cu'q'łpenłf g'yj g'hqmıy łpi 'qvr leu . "cu'cr r rłecdr<"

c0Á Vj g'pcwtg'qh'uechhqr'f 'j c| ctf u0'

d0Á Vj g'eqttgev'r tqegf wtgu'hqt'gtgev'pi . 'f kucuugo drkpi . 'o qłkpi . 'qr gtcvłpi . 'tgr cłłkpi . 'łpur gev'pi . 'cpf "  
o clpvcłpłpi 'y g'v' r g'qh'uechhqr'f 'łp's wguv'kp="

e0Á Vj g'f guk p'etłgtk . 'o czko 'wo 'łpvpgf gf 'mqcf /ectt{łpi 'ecr cekł . 'cpf 'łpvpgf gf 'wug'qh'yj g'uechhqr'f ="

f 0Á Cp{ 'qyj gt'r gtłpgpv'tgs włtgo gpw'qh'yj ku'uwdr ctv0'

## 3. Re-training

Y j gp'yj g'go r m{gt'j cu'tgcuqp'q'dgnłxg'yj cv'cp{ 'go r m{gg'hcnu'yj g'unłmłqt'wpf gtuvcpf łpi 'pggf gf 'hqt'uchg"  
y qtnłpxqrłkpi 'y g'gtgev'kp . 'wug'qt'f kuo cpvłpi 'qh'uechhqr'f u . 'y g'go r m{gt'gt'o wuv'gputg'yj cv'yj g'go r m{gg'ku"  
tgtclłpgf 'uq'yj cv'yj g'tgs włukg'r tqhłkłgpe{ 'ku'tgi clłpgf 0T gvtclłpłpi 'ku'tgs włtgf 'łp'cv'łgcuv'yj g'hqmıy łpi 'ułwcvłqpu<"

c0Á Y j gtg'ej cpi gu'cv'yj g'y qtnukg'r tgugpv'c'j c| ctf "cdqw'y j lej "cp"go r m{gg'j cu'pqv'dggp'r tğxłqwuł{ "  
tclłpgf 0'

d0Á Y j gtg'ej cpi gu'łp'yj g'v' r gu'qh'uechhqr'f u . 'hcmlr tqvgev'kp . 'hcłkpi 'qdlgev'r tqvgev'kp . 'qt'qyj gt'gs włr o gpv'  
r tgugpv'c'j c| ctf "cdqw'y j lej "cp"go r m{gg'j cu'pqv'dggp'r tğxłqwuł{ 'tclłpgf 0'

e0Á Y gtg'łpcf gs wcekgu'łp"cp"chgevgf "go r m{gg'u'y qtnłpxqrłkpi 'uechhqr'f u'łpf lecv'g'yj cv'yj g'go r m{gg"  
j cu'pqv'tgvcłpgf 'y g'tgs włukg'r tqhłkłgpe{ 0'

"  
"  
"



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30Vj gug'tgs wkt go gpw'cr r n{ "q"cm'eqputwevkqp"cevkxkkgu'y j gtg'cp"go r m{ gg'o c{ "dg"occupationally gzar qugf "q" rgcf 0Eqputwevkqp"cevkxkkgu'kpenw' gu."dw'ku'pqv'iko ksgf "q"vj g'following:

c0ÁF go qrkxqp"qt"ucrxci g'qh'utwewtgu'y j gtg'rgcf "qt"o cvgtkcu'eqpvckpki "rgcf"ctg'r tguvp0'

d0ÁT go qxcn'qt"gpccr uwrvkqp"qh'o cvgtkcu'eqpvckpki "rgcf 0'

e0ÁP gy "eqputwevkqp."cngtcvkqp."tgr ckt."qt"tgpqxcvkqp"qh'utwewtgu."uwdutcvgu."qt"r qtvkpu"vj gtgqh'vj cv' eqpvckp"rgcf 0'

f 0ÁKpucrvkqp"qh'r tqf wew'eqpvckpki "rgcf 0'

g0ÁNgcf "eqpvco kpcvkp lgo gti gpe{ "ergcpwr 0'

h0Á Vtcur qtvkqp."f kur qucn"uxqci g'qt"eqpvco kpcpv'qh'rgcf "qt"o cvgtkcu'eqpvckpki "rgcf"qp"vj g" eqputwevkqp"uksg0'

i 0ÁO clpvpcpeg"qr gtcvkpu"cuuqekvgf "y kj "eqputwevkqp"cevkxkkgu0'

## 2. Definitions

c0ÁAction level: Go r m{ gg"gzr quwtg."y kj qw'tgi ctf "q"vj g'wug'qh'tgur kcvqtu."q"cp"ckdqtpg"eqpegpvcvkqp"qh' rgcf "qh"52"o letqi tco u'r gt"ewdle"o gvg't"qh'ck"52o i lo 5+"ecrevrvgf "cu"cp": /j qwt"vko g'y gki j vgf "cxgtci g" \*VY C+0'

d0ÁEqo r gvgpv'r gtuqp<"Qpg"y j q"ku'ecr cdng"qh'kf gpvkh{ kpi "gzkukpi "cpf"r tgf kcvdng"rgcf"j c| ctf u'lp"vj g" uwtqwpf kpi u'qt"y qtnkpi "eqpf kkvpu"cpf"y j q'j cu'cwj qtk cvkqp"q"veng'r tqo r v'eqttgevkxg"o gcuw'tgu"q" grko kpcvg"vj go 0'

e0ÁNgcf <"O gvcnle"rgcf."cm'lpqti cple"rgcf"eqo r qwpf u."cpf"qti cple"rgcf"uqcr u0Gzenw'gf"ltqo "vj ku'f ghpkxqp" ctg"cm'qvj gt"qti cple"rgcf"eqo r qwpf u0'

## 3. Permissible Exposure Limit

c0ÁVj g"go r m{ gt"uj cm'cuwtg"vj cv'pq"go r m{ gg"ku'gzr qugf "q"rgcf "cv'eqpegpvcvkpu'i tgcvg't"vj cp" kkm"o letqi tco u'r gt"ewdle"o gvg't"qh'ck"72o i lo 5+"cxgtci gf "qxgt"cp": /j qwt'r g'kqf 0'

d0ÁY j gp'tgur kcvqtu"ctg"vugf "q"iko k'go r m{ gg"gzr quwtg."y gp"vj g"go r m{ gg"gzr quwtg"o c{ "dg"eqpukf gtgf "q"dg"cv'vj g'rgxgn'r tqxkf gf "d{ "vj g'r tqgevkvqp"hcvt"qh'vj g'tgur kcvqt"ht"vj qug'r gtqkf u'vj g'tgur kcvqt"ku" y qtp0'

## 4. Exposure Assessment

c0ÁI gpgtcn'

kÁKpkkm{ "y g'uj cm'f gvgto kpg"hi'cp{ "go r m{ gg"o c{ "dg"gzr qugf "q"rgcf "cv'qt"cdqxxg"vj g'cevkqp"rgxgn0'

kÁWpf gt"vj g'o qpkxqtkpi "tgs wkt go gpw."y g'uj cm'eqngev'r gtuqpcn'uco r ngu'tgr tguvpvkvxg"qh'c'hwn'uj kkw." kpenw'kpi "cv'rgcu'qpq"uco r rg'ht"gcej "lqd"encuukh'ecvkqp"kp"gcej "y qtn'ctgc"gkj gt"ht"gcej "uj kkw'qt"ht" vj g'uj kkw'y kj "vj g'j ki j guv'gzr quwtg"rgxgn0'

km"Y kj "tgur gev"q"rgcf "tgrv'gf "cum"wpvki'vj g"go r m{ gt'r gthqto u'cp"go r m{ gg"gzr quwtg"cuuguu gpv'cpf " f qewo gpw'vj cv'vj g"go r m{ gg'r gthqto kpi "vj g'cumiku'pqv'gzr qugf "cdqxxg"vj g'RGN."vj g"go r m{ gt"uj cm'" v'gcv'vj g"go r m{ gg"cu'hi'j gluj g'y gtg'gzr qugf "cdqxxg"vj g'RGN"cpf "pqv'lp"gzegu'qh'v'gp"32+"vko gu"vj g'" RGN."uj cm'ko r ngo gpv'go r m{ gg'r tqgevkvxg"o gcuw'tgu'r tguetldgf "cu'hqmqy u<"



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\*3-ÁCr r tqr tlcw'gur kcvqt 'r tqvckqp"

\*4-ÁCr r tqr tlcw'r gtupcn'r tqvckxg'emvj kpi "cpf "gs wkr o gpv"

\*5-ÁEj cpi g'ctgc"

\*6-ÁJ cpf 'y cuj kpi 'hckkkgu"

\*7-ÁDkqmi kcn'o qpkqt kpi "q'eqpukv'qh'dmqf "uco r r kpi "cpf "cpn' uku'hqt'hcgf "cpf "l kpe"  
r tqvr qtr j { tlp'rgxgnu"

\*8-ÁVtckp kpi "cu'tgs wktgf <"

\*c-ÁJ c| ctf "eqo o wpleckqp"

\*d-ÁTgur kcvqt"

\*e-ÁRgtupcn'J { i kpg"

kx-ÁY j gtg'yj g'go r mq { gt'j cu'r tgxkqwn' "o qpkqtgf "hqt'hcgf "gZR quwtg "cpf "yj g'f cwc'y cu'qdvckpgf "y kj kpi"  
yj g'r cuw'34 o qpj u'f wtkpi "y qtn'qr gtcvkpu'eqpf wevgf "wpf gt'y qtnr neg'eqpf kkpku'emugn' "  
tgugo dtkpi "yj g'r tgeguu. "v' r g'qh'o cvgtkn'eqpvtqri'o gj qf u. "y qtnr tcevegu. "cpf "gpxkqpo gpvcl'  
eqpf kkpku'wugf "cpf "r tgcckkpi "kp'yj g'go r mq { gt'u'ewtgpv'qr gtcvkpu. "yj g'go r mq { gt'o c { 'tgn' "qp"  
uwej "gctrktg'o qpkqt kpi ""tguwnuO'

\*3-ÁY j gtg'yj g'go r mq { gt'j cu'qdlgevkxg'f cwc. "f go qpwtckpi "yj cv'c'r ctvevwt'r tqf wev'qt'o cvgtkn'  
eqpvckp kpi "hcgf "qt'c'ur gekke'r tgeguu. "qr gtcvkqp'qt'cevkxk' "lpxqrkpi "hcgf "ecppqv' "tguwn'kp"  
go r mq { gg'gZR quwtg'vq'hcgf "cv'qt'cdqxs'g'yj g'cevkqp'rgxgn'f wtkpi "r tgeguukpi . "wug. "qt'j cpf r kpi . "yj g"  
go r mq { gt'o c { 'tgn' "w'qp'uwej "f cwc'lpvugf "qh'ko r ngo gpv kpi "lpxkcn'o qpkqt kpi O'

## 5. Positive Initial Determination and Initial Monitoring

c0ÁY j gtg'c'f gvgto kpcvkqp'uj qy u'yj g'r quukdkk' "qh'cp { "go r mq { gg'gZR quwtg'cv'qt'cdqxs'g'yj g'cevkqp'rgxgn'  
yj g'go r mq { gt'uj cml'eqpf wev'o qpkqt kpi "y j lej "ku'tgr tugpvcxg'qh'yj g'gZR quwtg'hqt'gcej "go r mq { gg'kp"  
yj g'y qtnr neg'yj q'ku'gZR qugf "vq'hcgf O'

d0ÁY j gtg'c'f gvgto kpcvkqp'ku'o cf g'yj cv'pq'go r mq { gg'ku'gZR qugf "vq'cktdqtpg'eqpegpvcvkpu'qh'hcgf "cv'qt"  
cdqxs'g'yj g'cevkqp'rgxgn'yj g'go r mq { gt'uj cni'o cng'y tkwgp'tgeqtf "qh'uwej "f gvgto kpcvkqpO'Vj ku'tgeqtf "uj cni'  
kpenf g<"

k-ÁNqecvkqp'y kj kpi "y qtn'uksgO'

k-ÁP co g'cpf "uqekcn'ugewtk' "pwo dgt'qh'gcej "go r mq { gg'o qpkqtgf O'

k-Áp { "lphqto cvkqp. "qdugtxcvkpu. "qt'ecrewevkpu'y j lej "y qwf "lpf kcvg'go r mq { gg'gZR quwtg'vq'hcgf O'

kx-Áp { "r tgxkqwu'o gcuwtgo gpw'qh'cktdqtpg'hcgf O'

x-ÁCp { "go r mq { gg'eqo r r kpw'qh'u { o r vqo u'y j lej "o c { "dg'cwtkdwdng'vq'gZR quwtg'""vq'hcgf O'

## 6. Frequency

c0ÁK'yj g'lpkkn'f gvgto kpcvkqp'qt'uwdugs wgpv'f gvgto kpcvkqp'tgxgcn'go r mq { gg'gZR quwtg'vq'dg'cv'qt'cdqxs'  
yj g'cevkqp'rgxgn'dw'cv'qt'dgmy "yj g'RGNO'yj g'go r mq { gt'uj cni'r gthqto "o qpkqt kpi "cv'rcu'gxgt { "ukz "8+ "  
o qpj uO'

d0ÁK'yj g'lpkkn'f gvgto kpcvkqp'tgxgcn'yj cv'go r mq { gg'gZR quwtg'ku'cdqxs'g'yj g'RGN'yj g'go r mq { gt'uj cni'  
r gthqto "o qpkqt kpi "s wctvgn' O'



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## 7. Additional Exposure Assessments

Y j gpgxgt "y j gtg" cu'dggp "c'ej cpi g'qh'gs wkr o gpv" r t qegu. "eqpvtqn" r gtupppgn'qt "c'pgy 'vcum'j cu'dggp 'l'p'k'c'v'g" yj cv'o c' { 't'guw'lp'go r m' { ggu'dgkpi "g'zr qugf "cdq'x'g' yj g'RG'N. "y j g'go r m' { gt'uj cm'leqpf we'cf f k'k'q'p'cn' o q'p'k'q't'k'pi O'

## 8. Employee Notification

cO'AY kj lp'h'x'g' \*7+ y q'tm'kpi "f'c' { u'ch'gt "eqo r r'g'v'k'p' "q'h'y j g'g'zr quwt g'cu'gu'uo gpv'y j g'go r m' { gt'uj cm'lp'q'v'h' { " g'cej "go r m' { gg'lp'y t'k'k'pi "q'h'y j g't'guw'u'y j lej "t'gr t'gug'p'v'y j cv'go r m' { gg'u'g'zr quwt g'O'

dO'AY j gpgxgt "y j g't'guw'u'lp'f'lec'v'g' yj cv'y j g't'gr t'gug'p'v'x'g'go r m' { gg'g'zr quwt g.'y j q'w't'gi c'tf "v'q' yj g't'gur k'c'v'q'tu." ku'cv'qt "cdq'x'g' yj g'RG'N" yj g'go r m' { gt'uj cm'lp'p'nf g'lp' yj g'y t'k'v'p' "p'q'v'eg'c' "u'c'v'go gpv'O'y j cv'y j g'go r m' { gg'u' g'zr quwt g'y cu'cv'qt "cdq'x'g' yj cv'g'x'g'n'c'p'f "c'f g'uet'k' v'k'p' "q'h'y j g'e'q't'g'v'x'g' "c'v'k'p' "c'v'ng'p' "q't' "v'q' "d'g' "c'v'ng'p' "v'q' "t'g'f' w'eg" g'zr quwt g'v'q' "d'g'm'y "y j cv'g'x'g'n'O'

## 9. Methods of Compliance

Gpi k'p'g'g't'k'pi "c'p'f "y j q'tm'r t'c'v'eg' "eqpvtqn" u'j cm'id'g' "lo r r'go gpv'g'f "v'q' "t'g'f' w'eg" c'p'f "o c'k'p'v'k'p' "go r m' { gg'g'zr quwt g'v'q' " r'g'cf "d'g'm'y "y j g'r g'to k'u'k'd'g' "g'zr quwt g' "ko k'v'q' yj g'g'z'v'p'v'y j cv'u'w'ej "eqpvtqn" c't'g' "h'c'uk'd'g' O'Y j g't'g'x'g't "y j g'g' "eqpvtqn" c't'g' "p'q'v'w'h'k'k'p'v'v'q' "t'g'f' w'eg" "go r m' { gg'g'zr quwt g.'y j g'go r m' { gt'uj cm'lp'q'p'g'y j g'gu'w'ug' yj go "v'q' "t'g'f' w'eg" "go r m' { gg'g'zr quwt g'v'q' yj g'm'y g'u'v'g'c'uk'd'g' "g'x'g'n'c'p'f "u'j cm'l'w'r r'go gpv'y j go "d' { "y j g'w'ug' "q'h'r t'q'r g't' "r'gtu'q'p'cn'r t'q'v'g'v'x'g' " g's wkr o gpv'O'

## 10. Compliance Program

cO'Ar't'k'q't "v'q' yj g'eqo o g'p'ego gpv'q'h'y j g'l'q'd. "y j g'go r m' { gt'uj cm'l'g'u'c'd'r'k'uj "c'p'f "lo r r'go gpv'c' "y j t'k'v'p' " eqo r r'k'c'p'eg' "r' t'q'i t'co "v'q' "c'ej k'g'x'g' "eqo r r'k'c'p'eg' yj k'j "y j g'u'c'p'f c'tf O'

dO'AY t'k'w'g'p' "r' r'c'p'u'h'q't "y j g'g' "l'q'd "eqo r r'k'c'p'eg' "r' t'q'i t'co u'uj cm'lp'p'nf g'cu'c' "o k'p'ko w'o <

k+Á C "f' g'uet'k' v'k'p' "q'h'g'cej "c'v'x'k'v' "lp'y j lej "r'g'cf "ku'go k'w'g'f. "g's wkr o gpv'w'ug'f. "o c'v'g't'k'cn'lp'x'q'x'g'f. "eqpvtqn" lp'r' n'ceg. "et'gy "u'k' g. "go r m' { gg' "l'q'd "t'g'ur q'p'uk'd'k'k'k'g'u. "q'r g't'c'v'k'pi "r' t'q'eg'f w't'g'u'c'p'f "o c'k'p'v'g'p'c'p'eg' "r' t'c'v'eg'g'u'O'

k+Á C "f' g'uet'k' v'k'p' "q'h'y j g'ur g'ek'h'k' "o g'c'p'u'y j cv'y k'm'id'g' "go r m' { g'f "v'q' "c'ej k'g'x'g' "eqo r r'k'c'p'eg' "c'p'f. "y j g't'g' " g'pi k'p'g'g't'k'pi "eqpvtqn" c't'g' "t'g's w'k'g'f "g'pi k'p'g'g't'k'pi "r' r'c'p'u'c'p'f "u'w'f k'g'u'w'ug'f "v'q' "f' g'v'g'to k'p'g' "o g'y q'f u'ug'g'v'g'f " h'q't "eqpvtqn" k'pi "g'zr quwt g'v'q' "r'g'cf O'

k+Á C k' "o q'p'k'q't'k'pi "f'c'v'c' "y j lej "f'q'ewo gpw'y j g'u'q'w't'eg' "q'h' "r'g'cf "go k'u'k'q'p'u'O'

kx+Á C "f' g'v'c'k'g'f "u'ej g'f w'g' "h'q't "lo r r'go gpv'v'k'p' "q'h'y j g'r' t'q'i t'co. "lp'p'nf k'pi "f'q'ewo gpv'v'k'p' "u'w'ej "cu' "eq'r k'g'u'q'h'r w'ej c'ug' "q't'f g'tu' "h'q't "g's wkr o gpv. "eqp'ut'w'v'k'p' "eqp't'c'evu. "g'v'e'O'

x+ C "f' g'uet'k' v'k'p' "q'h'c'tt'c'pi go gpw' "o c'f g' "co q'pi "eqp't'c'v'q'tu' "q'p' "o w'nk' "eqp't'c'v'q'tu' "u'k'g'u' "y j k'j " t'g'ur g'ev'v'q' "l'p'h'q'to k'pi "c'h'g'ev'g'f "go r m' { g'gu' "q'h'r q'v'g'p'v'cn' "g'zr quwt g'v'q' "r'g'cf O'

xk+Á Vj g'eqo r r'k'c'p'eg' "r' t'q'i t'co "uj cm'l'r t'q'x'k'f g' "h'q't "h'g's w'g'p'v'c'p'f "t'gi w'rt' "lp'ur g'ev'k'q'p'u' "q'h' "l'q'd "u'k'g' "o c'v'g't'k'cn. "c'p'f "g's wkr o gpv'v'q' "d'g' "o c'f g' "d' { "c' "eqo r g'v'g'p'v'r g'tu'q'p'O'

xk+Á Vj k'u'y t'k'w'g'p' "r' t'q'i t'co "uj cm'id'g' "u'w'do k'w'g'f "w'r q'p' "t'g's w'g'u'v'q' "c'p' { "c'h'g'ev'g'f "go r m' { gg' "q't' "c'w'j q't'k' g'f " t'gr t'gug'p'v'x'g'u. "v'q' yj g'cu'k'v'c'p'v'ug'et'g'v'c't { "c'p'f "y j g'f'k'g'ev'q't. "c'p'f "uj cm'id'g' "c'x'c'k'c'd'g' "cv'y j g'y q't'm'k'g' " h'q't "g'z'co k'p'c'v'k'p' "c'p'f "eq'r { k'pi "d' { "y j g'cu'k'v'c'p'v'ug'et'g'v'c't { "c'p'f "y j g'f'k'g'ev'q't'O'

xk+Á AY t'k'w'g'p' "l'q'd "r' t'q'i t'co u'uj cm'id'g' "t'g'x'k'g'f "c'p'f "w'r f'c'v'g'f "cv'g'c'v'g'x'g't { "u'k'z' \*8+ "o q'p'y u'v'q' "t'g'h'g'ev'v'y j g' " ew't'g'p'v'w'c'w'u' "q'h'y j g'r' t'q'i t'co O'



"

## 11. Administrative Controls

c0ÁKícf o kpkwtcvkxg'eqvtni'ctg'wugf "cu"o gcpu'qh'tgf welpi "go r m{ ggu'gxr quwtg'v'gcf . 'y j g"  
go r m{ gt'uj cml'gucdrkuj "cpf "lo r ngo gpv'c"lqd'tqvcvkqp'uej gf wrg'y j lej "lpenwf gu<"

kÁ P co g"qt "kf gpv'whecvkqp'pwo dgt"qh'gcej "chgevgf "go r m{ gg0'

kÁ F wtcvkqp"cpf "gxr quwtg'rgxgnu'cv'gcej "lqd"qt "y qtnl'wcvkqp'y j gtg'gcej "chgevgf "go r m{ gg'ku"  
mgecvf 0'

"

## 12. Respiratory Protection

c0ÁI gpgtcn"

kÁ Y j gtg'y j g'wug'qh'tgur kcvqtu'ku'tgs wktgf "y j g"go r m{ gt'uj cml'r tqxkf g."cv'pq"equv'v'g'g"go r m{ gg."  
cpf "gphqteg'y j g'wug'qh'tgur kcvqtu0T gur kcvqtu'uj cml'dg"wugf "kp'y j g'hqmqy kpi "ekewo ucpegu0'

\*3Á Y j gpgxgt"cp"go r m{ gg"u'gxr quwtg'v'gcf "gzeggf u'y j g'RGNO'

\*4Á Kp'y qtnl'ukwcvkqp'kp."y j lej "gpi kpggtkpi "eqvtni'cpf "y qtnl'r tcevegu"ctg"pqv'uw'hekgpv'v'"  
tgf weg'gxr quwtgu'v'g'dgmj "y j g'RGNO'

\*5Á Y j gpgxgt"cp"go r m{ gg'tgs wguu"ctgur kcvqt0'

kÁT gur kcvqt "Ugrgevkqp"

\*3Á Y j gtg'tgur kcvqtu'ctg'wugf "y j g"go r m{ gt'uj cml'ugrgev'y j g"er r tqr tlcg'tgur kcvqt"qt"  
eqo dlpvcvkqp"qh'tgur kcvqtu0'

\*4Á Vj g"go r m{ gt'uj cml'r tqxkf g"er r qy gtgf ."ck/r wtkh{ kpi "tgur kcvqt"y j gpgxgt<"

\*cÁ cp"go r m{ gg"ej qqugu'v'wug'y j ku'v{r g'qh'tgur kcvqt"

\*dÁ y j gp'k'ku'pggf gf "v'v'g'g'cf gs wcvg'r tqvgevkqp0'

\*5Á Vj g"go r m{ gt'uj cml'ugrgev'tgur kcvqtu'htqo "y j qug"er r tqxgf "hqt'r tqvgevkqp"ci ckpuv'gcf ."f wuv."  
hwo g"cpf "o ku0'

kÁT gur kcvqt "Wuci gRtqi tco "

\*3+"Cf j gtg'v'g'g'r tqi tco "tgs wktgo gpw'gucdrkuj gf "wpf gt"T gur kcvqt "Rtqi tco "kp'y j ku'ugevkqp""  
qh'y j g'o cpwcr0'

"



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## RESPIRATORY PROTECTION FOR LEAD AEROSOLS

Airborne concentration of lead or condition of use	Required respirator
P qv'lp"gzeguu"qh'722"Üi lo 5"	ÉÁ "o cun'ck't'r wtkh{ kpi 't'gur k'cvqt'y kj 'j ki j "ghlekpe{ " h'ngtu0'
"	"
"	ÉÁ "o cun'lw'r r'rkf "ck't'gur k'cvqt"qr g'cvgf "lp"f go cpf " *pgi c'k'g'r t'guwtg+"o qf g0'
"	"
P qv'lp"gzeguu"qh'3.472"Üi lo 5"	ÉÁ Nqqug'h'w'kpi 'j q'qf "qt"j g'm g'v'r qy g'tgf "ck't'r wtkh{ kpi " t'gur k'cvqt'y kj 'j ki j "ghlekpe{ 'h'ngtu0'
"	"
"	ÉÁ J q'qf "qt"j g'm g'v'lw'r r'rkf "ck't'gur k'cvqt"qr g'cvgf "lp"c" eqp'k'p'w'w/h'ny "o qf g"/"g0 0'v' r g'EG"cdtcuk'g'd'c'w'kpi " t'gur k'cvqtu"qr g'cvgf "lp"c"eqp'k'p'w'w/h'ny "o qf g0'
"	"
P qv'lp"gzeguu"qh'4.722"Üi lo 5"	ÉÁ Hwn'lh'ceg'r k'geg"ck't'r wtkh{ kpi 't'gur k'cvqt'y kj 'j ki j " ghlekpe{ 'h'ngtu0'
"	"
"	ÉÁ V'ki j v'h'w'kpi 'r qy g'tgf "ck't'r wtkh{ kpi 't'gur k'cvqt'y kj " j ki j "ghlekpe{ 'h'ngtu0'
"	"
"	ÉÁ Hwn'lh'ceg'r k'geg"lw'r r'rkf "ck't'gur k'cvqt"qr g'cvgf "lp" f go cpf "o qf g0'
"	"
"	ÉÁ "o cun'lhwn'lh'ceg'r k'geg"lw'r r'rkf "ck't'gur k'cvqt" qr g'cvgf "lp"c"eqp'k'p'w'w/h'ny "o qf g0'
"	"
"	ÉÁ Hwn'lh'ceg'r k'geg"u'gh/eqp'k'p'g'f "dtgc'y kpi "cr r'ctc'w'u" *UEDC+"qr g'cvgf "lp"f go cpf "o qf g0'
"	"
P qv'lp"gzeguu"qh'72.222"Üi lo 5"	ÉÁ "o cun'lw'r r'rkf "ck't'gur k'cvqt"qr g'cvgf "lp"r t'guwtg" f go cpf "qt"q'y g't'r q'uk'k'g/r t'guwtg"o qf g0'
"	"
P qv'lp"gzeguu"qh'322.222"Üi lo 5"	ÉÁ Hwn'lh'ceg'r k'geg"lw'r r'rkf "ck't'gur k'cvqt"qr g'cvg'lp"r t'guwtg" f go cpf "qt"q'y g't'r q'uk'k'g/r t'guwtg"o qf g"/"g0 0'v' r g'EG" cdtcuk'g'd'c'w'kpi "t'gur k'cvqtu"qr g'cvgf "lp"c"r q'uk'k'g/ r t'guwtg"o qf g0'

### 1. Protective Work Clothing and Equipment

c0ÁY j g'tg"go r m{ ggu'ctg"gzr qugf "q'g'cf "cdq'xg'y g'RG'N'y kj q'w't'gi ctf "v'q'y g'w'ug"qh't'gur k'cvqtu"cpf lqt" y j g'tg"go r m{ ggu'ctg"gzr qugf "q'g'cf "eqo r q'w'p'f u'y g'go r m{ g't'uj c'm'r t'q'x'k'f g'c'v'p'q "eq'w'v'q'y g'go r m{ gg" cpf "cu'w't'g'y c'v'y g'go r m{ gg'w'ug'u'cr r t'q'r t'k'v'g'r t'q'v'g'e'k'g'y q't'n'ie'm'y kpi "cpf "gs w'k'r o g'p'v'y c'v'r t'g'x'g'p'u" eqp'w'o k'p'c'k'p'q'h'y g'go r m{ gg'cpf "y g'go r m{ gg'u'i c'to g'p'u'u'we'j "cu."dw'p'q'v'h'o k'g'f "v'q<"

k'Á eq'x'g't'c'm'u'qt' 'u'k'o k'c't' 'h'w'm/d'q'f { 'y q't'n'ie'm'y kpi ="

k'Ái m'x'g'u."j c'u."cpf "uj q'g'u'qt'f k'ur q'uc'd'g'uj q'g'eq'x'g't'g'u"

k'Á'ceg'uj k'g'f ."x'g'p'v'g'f "i q'i i n'g'u'qt'q'y g't'cr r t'q'r t'k'v'g'r t'q'v'g'e'k'g'gs w'k'r o g'p'0'

### 2. Cleaning and Replacement

c0Á V'j g'go r m{ g't'uj c'm'r t'q'x'k'f g'y g'r t'q'v'g'e'k'g'em'y kpi "lp"c"e'ng'c'p'cpf "f t{ "eq'p'f k'k'q'p'0'



# LEAD STANDARD

d0Á Vj g"go r m{ gt'uj cmlr tqxkf g'hqt'yj g'engcpkpi . 'ncwpf gtlpi . 'cpf 'f kur qucn'qhl'r tqvgevkg'emqj kpi 'cpf "gs wkr o gpv0'

e0Á Vj g"go r m{ gt'uj cmltgr ckt'qt'tgr nceg'r tqvgevkg'emqj kpi 'cpf "gs wkr o gpv'cu'pggf gf "vq"o clpvckp'yj gkt" ghhevkgpguu0'

f0Á Vj g"go r m{ gt'uj cml'cuwtg'yj cv'eqpwo kpcvgf 'r tqvgevkg'emqj kpi 'ku'r nceg' 'kp"e'emqugf "eqpvckpgt'kp'yj g" ej cpi g'ctgc. 'y j kej 'r tggpwl'f kur gtukqp'qh'ngcf "qwuuf g'yj g'eqpvckpgt0'

g0Á Vj g"go r m{ gt'uj cml'phqto 'kp'y tklpi 'cp{ 'r gtupp'y j q'engcpu'qt'ncwpf gtu'r tqvgevkg'emqj kpi "qt" gs wkr o gpv'qhl'yj g'r qvgpckm{ 'j cto hml'ghgewu'qh'gizr quwtg'vq'ngcf 0'

h0Á Vj g'eqpvckpgtu'qh'eqpwo kpcvgf 'r tqvgevkg'emqj kpi 'cpf "gs wkr o gpv'uj cml'dg'ncdgrgf "cu'hqmqy u" ECWIKQP <ENQVJ KPI 'EQP VCO KPCVGF 'Y KJ 'NGCF 0'F Q'P QV'TGO QXG'F WUV'DI " DNQY KPI 'QT'UJ CMKPI 0'F KURQUG'QH'NGCF 'EQP VCO KPCVGF 'Y CUJ 'Y CVGT'KPI " CEEQTF CPEG'Y KJ 'CRRNKECDNG'NQECON'UVCVG.'QT'HGF GTCN'""TGI WNCVKQP UJ

## 3. Housekeeping

c0Á Cml'wthcegu'uj cml'dg'o clpvckpgf "cu'htgg'cu'r tcevecdng'qh'ceewo wrcvqpu'qh'ngcf 0'

d0Á Engcp'wr "qh'hqqtu'cpf "qjy gt'wthcegu'y j gtg'ngcf "ceewo wrcvqpu'uj cm'y j gpgxgt'r quukdr. "dg'engcpgf "d{ " xceewo kpi "qt"qjy gt'o gyj qf u'yj cv'o kpo k g'yj g'hngkj qqf "qh'ngcf "dgeqo kpi "cktdqtpg0'

e0Á Uj qxgkpi . 'ft{ "qt'y gv'uy ggr kpi 'cpf "dtwuj kpi "o c{ "dg'wugf "qpn{ 'y j gtg'xceewo kpi "qt"qjy gt" gs wcm{ "ghhevkg'o gyj qf u'j cxg'dggp'tkgf "cpf "hqwpf "pqv'vq'dg'ghhevkg0'

f0" Y j gtg'xceewo kpi "o gyj qf u'ctg'ugrgev. 'y j g'xceewo u'uj cml'dg'gs wkr r gf 'y kj "J GRC'hngtu'cpf "wugf " cpf "go r vkgf "kp"e"o cpgt'y j kej "o kpo k gu'yj g'tggpt{ "qh'ngcf "kpq'yj g""y qtmr nceg"

g0" Ego r tguugf "ck'uj cml'pqv'dg'wugf "vq'tgo qxg'ngcf "htgo "cp{ "wthceg'wprguu'yj g'eqo r tguugf "ck'ku'wugf "kp" eqplwpevqpyj kj "c'xgpkrcvqp'u{ uvgu "f guki pgf "vq'ecr wtg'yj g'cktdqtpg'ngcf "f wuv'etgcvgf "d{ "y j g" eqo r tguugf "ck0'

## 4. Hygiene Facilities and Practices

c0Á I gpgtcl'

kaÁ Vj g"go r m{ gt'uj cml'cuwtg'yj cv'kp"ctgcu'y j gtg"go r m{ ggu"ctg" gizr qugf "vq"ngcf "cdqxs"y j g"RGN" y kj qw'tgi ctf "vq"y j g"wug"qh'tgur kcvqtu."hqkf "qt"dgxgtci g"ku'pqv'r tguvp'qt"eqpuwo gf ."vqdceeq" r tqf wew'ctg'pqv'r tguvp'qt"wugf . "cpf "equo g'vku'ctg'pqv'cr r rkgf 0'

d0Á Ej cpi g'Ctgcu'

kaÁ Vj g"go r m{ gt'uj cmlr tqxkf g'engcp'ej cpi g'ctgcu'hqt'go r m{ ggu'y j qug'cktdqtpg'gizr quwtg'vq'ngcf " ku'cdqxs'yj g'RGNO'

kaÁ Vj g'ej cpi g'ctgcu'uj cml'dg'gs wkr r gf 'y kj "ugr ctcvgf "uqtci g'hckkkgu'qh'r tqvgevkg'y qtm" emqj kpi "cpf "gs wkr o gpv'cpf "hqt'wtggv'emqj gu. 'y j kej 'y knlr tggpvt'etquu/eqpwo kpcvqpp0'

kaÁ Vj g"go r m{ gt'uj cml'cuwtg'yj cv'go r m{ ggu'f q'pqv'ngcxg'yj g'y qtmr nceg'y gctkpi "cp{ 'r tqvgevkg" emqj kpi "qt"gs wkr o gpv'yj cv'ku'tgs vktgf "vq'dg'y qtp'f vtlpi "y j g'y qtmuj km"

e0Á Uj qy gtu"

kaÁ Uj qy gt'hckkkgu'uj cml'dg'r tqxkf gf . 'y j gtg'hgcukdr. 'hqt'wug'd{ "go r m{ ggu'y j qug'cktdqtpg" gizr quwtg'vq'ngcf "ku'cdqxs'yj g'RGNO'

kaÁ Vj g"go r m{ gt'uj cml'cuwtg. 'y j gtg'uj qy gt'hckkkgu'ctg'cxckrdr. 'y j cv'go r m{ ggu'uj qy gt'cv'yj g'gpf " qh'yj g'y qtmuj km'cpf 'uj cmlr tqxkf g'cp'cf gs wcv'uw r n{ "qh'engcpkpi "ci gpw'cpf "qy gnu"



# LEAD STANDARD

f Á Gcłpi "Hekrkłgu"

kł" Nwpej tqgo "hckrkłgu"qt"gcłpi "ctgcu'uj cml'dg'r tqxłf gf "hqt"go r mł{ ggu'y j qug"ckdqtpg"gzr quwtg"vq"  
ngcf "ku'cdqyg"y g"RGNO

kł+ÁVj g"go r mł{ gt'uj cml'cuwtg'y cv'hwpej tqgo "hckrkłgu"qt"gcłpi "ctgcu'ctg'cu'htgg'cu'r tcevkcdng'htqo "  
ngcf "eqpwo kpcłqp"cpf "ctg'tgcf kł"ceeguikdng"vq"go r mł{ ggu0

kł+ÁGo r mł{ ggu'uj cml'dg'tgs włt gf "vq'y cuj "y gkt"j cpf u'cpf "hceg'r tkqt"vq"gcłpi . "f tłpnłpi . "uo qnłpi "qt"  
cr r nł kłpi "equo gvleu0

kł+ÁVj g"go r mł{ gt'uj cml'cuwtg'y cv'go r mł{ ggu'f q"pqv'gpvgt'hwpej tqgo "hckrkłgu"qt"gcłpi "ctgcu'y kł  
r tqvgełxg'y qtnlenqj kłpi "qt"gs włr o gpv'wprgu'uwt hceg"ngcf "f wuv"j cu'dggp'tgo qxgf "d{ "xcewwo kłpi 0"

g Á J cpf "Y cuj kłpi "Hekrkłgu"

kł+Á Vj g"go r mł{ gt'uj cml'r tqxłf g'cf gs wcvg"j cpf "y cuj kłpi "hckrkłgu"y j gt'g'uj qy gtu'ctg'pqv"  
r tqxłf gf 0

h Á O gf lecn'Uwtxgłmpep"

kł+Á Vj g"go r mł{ gt'uj cml'o cng'cxckrdng'łpkłcn'o gf lecn'uwtxgłmpep"vq"go r mł{ ggu'qeer cvłqpcml "  
gzr qugf "vq"ngcf "cv'qt"cdqyg"y g'cevłqp"ngxgr0łpkłcn'o gf lecn'uwtxgłmpep"eqpukw'qh'dłqmqi lecn'  
o qpłkqtłpi "łp"y g'hqto "qh'dmqf "uco r nłpi "cpf "cpcnł uku'hqt"ngcf "cpf "l kpe'r tqvr qtr j { tłp"ngxgr0

kł+ÁVj g"go r mł{ gtu'uj cml'cuwtg'y cv'cml'o gf lecn'gzco kpcłqpu"cpf "r tqegf wgu'ctg'r gthqto gf "d{ "qt"  
wpf gt'y g'uw gtłkłqp"qh'c"degpugf "r j { ułekp0

kł+ÁVj g'o gf lecn'gzco kpcłqpu'uj cml'dg'o cf g'cxckrdng'y kł qw'equv"vq"go r mł{ ggu'cpf "cv'c"  
tgcupcdng"ło g"cpf "r meg0

i Á Dłqmqi lecn'O qpłkqtłpi "

kł+Á Dmqf "Ngcf "cpf " \ R'NgxgrUco r nłpi "cpf "Cpcnł uku"

\*3+ÁVj g"go r mł{ gt'uj cml'o cng'cxckrdng'dłqmqi lecn'o qpłkqtłpi "łp"y g'hqto "qh'dmqf "uco r nłpi "cpf "  
cpcnł uku'hqt"ngcf "cpf "l kpe'r tqvr qtr j { tłp"ngxgr0

\*4+ÁDmqf "uco r nłpi "uj cml'cng'r meg'cv'ngcu'gxgt { "y q"\*4+"o qpj u'hqt"y g'htuv'łkz"\*8+"o qpj u'cpf "  
gxgt { "łkz"\*8+"o qpj u'y gtgchgt0

\*5+ÁHqt"gej "go r mł{ gg'y j q"ku'tgo qxgf "htqo "gzr quwtg"vq"ngcf "f wg"vq"cp"ngxcvgf "dmqf "ngcf "uj cml'  
j cxg"dmqf "uco r nłpi "cv'ngcu'o qpj nł "wpłł"y q"\*4+"eqpugewłxg"dmqf "uco r ngu"cpf "cpcnł uku"  
łpf kecvg"c"dmqf "ngcf "ngxgr'dngy "62"o i lf r0

kł+ÁGo r mł{ gg"P qłhłecłqp"

\*3+Y kł kłp"łxg"\*7+"y qtnłpi "f c{ u'chgt"y g'tgegr v'qh'dłqmqi lecn'o qpłkqtłpi "tguwmu."y g"go r mł{ gt"  
uj cml'pqvłł"gej "go r mł{ gg"łp"y tklpi "qh'j ku'qt"j gt'dmqf "ngcf "ngxgr0

kł+ÁO gf lecn'Gzco kpcłqpu"cpf "Eqpuwncłqpu"

\*3+ÁVj g"go r mł{ gt'uj cml'o cng'cxckrdng."o gf lecn'gzco kpcłqpu"cpf "eqpuwncłqpu"cv'ngcu'cppwcmł "  
hqt"gej "go r mł{ gg'hqt"y j qo "c"dmqf "uco r nłpi "gvu'eqpf wevgf "cv'cp{ "ło g'f włłpi "y g'r tgegf kłpi "  
34"o qpj u'łpf kecvgf "c"dmqf "ngcf "ngxgr'cv'qt"cdqyg"62"o i lf 30



j 0Á Eqpvgpv"

kÁ Vj g"eqpvgpv"qh'o gf lecn'gzco kpcvkpu'uj cml'dg'f gvgto kpgf "d{ "cp'gzco kpkpi 'r j { ulekp'cpf . 'kh'  
tgs wguv'f "d{ "cp'go r m{ gg. 'uj cml'penw'f g'r tgi pcpe{ "vgukpi "qt'rdqtcvqt{ "gxcnvcvkp"qh'o cng"  
hgtvkv{ 0'

kÁ O gf lecn'gzco kpcvkpu'uj cml'penw'f g'vj g'hqmy kpi "grgo gpw<"

\*3-Á "f gvckgf "y qtnj kuvt{ "cpf "c'o gf lecnj kuvt{ . 'y kj "r ctvewrt'cwgpvkp"vq'r cuv'rgcf "  
gxr quwtg"qewr cvkpcn'cpf "pqp/qewr cvkpcn: "r gtupcnj cdku"uo qnkp + "cpf "r cuv"  
i cutqkv'gukpcn"j go cvqmi lecn'tgpcn'ectf kqxcuewrt. "tgr tqf wvkg"cpf "pgwtqmi lecn"  
r tqdngo u0'

\*4-Á Vj g"gzco kpcvkp"uj cml'c{ "r ctvewrt'cwgpvkp"vq'vgvj . 'i wo u. 'j go cvqmi lecn"  
i cutqkv'gukpcn'tgpcn'ectf kqxcuewrt. "cpf "pgwtqmi lecn'u' ngo u0'Rwro qpct{ "ucwu'uj qwf "  
cnuq'dg'gxcnvcgf "kh'tgur ktcvt{ "r tqvkvq"y kn'dg'wugf 0'

\*5-Á "dmqf "rtguwtg'o gcwtgo gpv"

\*6-Á "dmqf "uco r ng"cpf "cpcn'uku'y j lej "f gvgto kpgu<"

\*c-Á "dmqf "hgc'f "hgxgn"

\*d-Á go qi mdkp'cpf "j go cvqetk'f gvgto kpcvkpu. "tgf "egm'lpf legu. "cpf "gzco kpcvkp"qh"  
r gtr j gtr'uo gct'o qtr j qmi { "

\*e-Á kpe'r tqvr qtr j { tkp"

\*f-Á "dmqf "wtgc'pkiqi gp"

\*g-Á "gtwo "etgc'vklp"gp"

\*7-Á "tqwkpg"wtkpcn'uku'y kj "o letqueqr k"gzco kpcvkp0' "

\*8-Á p{ "rdqtcvqt{ "qt'qvj gt'gvt'gngxcpv'vq'hgc'f "gxr quwtg'y j lej "vj g"gzco kpkpi 'r j { ulekp"  
f ggo u'pgeguuct{ "d{ "uqwpf "o gf lecn'r tceveg0'

k0' O wnr ng'Rj { ulekp"Txlgv "O gej cpkuo "

kÁ Y j gp"vj g"go r m{ gt'ugr'ev'vj g'lpkkn'r j { ulekp'y j q"eqpf wv'cp{ "o gf lecn'gzco kpcvkp"qt"  
eqpuwncvkp'tgnv'f "vq'hgc'f "gxr quwtg. "vj g"go r m{ gg'o c{ "f guki pcvg'c'ugeqpf "r j { ulekp""vq<"

\*3-Á gxlgy "cp{ "hpf kpi u. "f gvgto kpcvkpu"qt'tgeqo o gpf cvkpu'qh'vj g'lpkkn'r j { ulecn"

\*4-Á eqpf wv'uwej "gzco kpcvkpu. "eqpuwncvkpu. "cpf "rdqtcvqt{ "gvu'cu'vj g'ugeqpf "r j { ulekp"f ggo u"  
pgeguuct{ "vq'hckkcv'vj ku'tgxlgy 0'

kÁ Vj g"go r m{ gt'uj cml'pqlh{ "gcej "go r m{ gg'qh'vj g'tki j v'vq'uggn'c'ugeqpf "o gf lecn'qr kpkp'chgt"gej "  
qecukp"vj cv'cp'lpkkn'r j { ulekp"eqpf wv'c'o gf lecn'gzco kpcvkp"qt'eqpuwncvkp0'Vj g'Ego r cp{ "ku"  
pqv'qdri cvgf "vq'r c{ "hqt'vj g'ugeqpf "qr kpkp0'

kÁ Vj g'hpf kpi u. "f gvgto kpcvkpu. "qt'tgeqo o gpf cvkpu'qh'vj g'ugeqpf "r j { ulekp"f kht'htqo "vj qug'qh'vj g"  
lpkkn'r j { ulekp. "vj gp'vj g"go r m{ gt'cpf "vj g"go r m{ gg'uj cml'cuwtg'vj cv'vj g'ghqt'w'ctg'o cf g'hqt'vj g"  
vy q'r j { ulekp'u'vq'tguqng'cp{ "f kuci tggo gpv0'

kx-Á Vj g'vy q'r j { ulekp'u'ecppqv'tguqng'vj gk'f kuci tggo gpv. "vj gp'vj g"go r m{ gt'cpf "go r m{ gg"  
vj tqwi j "vj gk'tgur gev'g'r j { ulekp'u'uj cml'f guki pcvg'c'vj ktf "r j { ulekp<"

\*3-Á "t gxlgy "cp{ "hpf kpi u. "f gvgto kpcvkpu. "qt'tgeqo o gpf cvkpu'qh'vj g'r tkqt'r j { ulekp'u'<cpf "

\*4-Á "eqpf wv'uwej "gzco kpcvkpu. "eqpuwncvkpu. "rdqtcvqt{ "gvu. "cpf "f kuewukpu'y kj "vj g'r tkqt"  
r j { ulekp'u'vq'tguqng'vj g'f kuci tggo gpv0'

x-Á kphqto cvkp"vq'dg'r tqxkf gf "vq'r j { ulekp0'

Á



# LEAD STANDARD

\*3+**C**"eqr { "qh'y g'QUJ C"Ucpcf ctf."4; 'EHT3; 48084"lpenw lpi "cm'cr r gpf legu0'

\*4+**"C**"f guetkr vkqp"qh'y g'chhgevdf "go r m{ gg}u'f wkgu'cu'yj g{ 'tgrcvg'vq'yj g'go r m{ gg}u'gZR quwtg0'

\*5+**ÁVj** g'go r m{ gg}u'gZR quwtg'ngxgn'qt"cpvlekr cvgf "gZR quwtg'ngxgn'vq'ngcf 0'

\*6+**ÁC**"f guetkr vkqp"qh'cp{ 'r gtupcni'r tqvevkg'gs vkr o gpv'wugf "qt'vq'dg'wugf 0'

\*7+**ÁRtlqt**"dmqf "ngcf "f gvgto kpcvkpu"

\*8+**ÁC**mnr tlqt'y tkwgp"o gf lecn'qr kpkpu'equegtplpi "yj g'go r m{ gg"

Vj ku'kphqto cvkqp"uj cm'dg'r tqxkf gf "vq"cu'ugeqpf "qt'yj ktf'rj { ulekp"eqpf wvki "c"o gf lecn'gzco kpcvkqp"qt"eqpuwncvkqp"  
wr qp'tgs wguv'gkj gt'd{ "yj g'ugeqpf "qt'yj ktf'rj { ulekp."qt'd{ "yj g'go r m{ gg0'

xk**Á** Y tkwgp"o gf lecn'qr kpkpu0'

\*3+**ÁVj** g'go r m{ gt'uj cm'qdvclp"cpf "hmtpluj "yj g'go r m{ gg'y kj "c"eqr { "qh'c'y tkwgp"o gf lecn'qr kpkqp"  
htqo "gcej "gzco kplpi "qt"eqpuwnkpi "rj { ulekp"y j lej "eqpvclpu"qpn{ "yj g'hqmy lpi "kphqto cvkqp"<

\*c+**ÁVj** g'rj { ulekp}u'qr kpkqp"cu'vq'yj g'vgt' "yj g'go r m{ gg'y cu'cp{ "f gvevdf "o gf lecn'eqpf kkp"y j lej "  
y qwf "r nceg'yj g'go r m{ gg'cv'kpetgcugf "tunq'h'o cvgtkcnko r cko gpv'qh'yj g'go r m{ gg}u'j gcnj "  
htqo "gZR quwtg"vq'ngcf 0'

\*d+**ÁCp**{ "tgeqo o gpf gf "ur geknr tqvevkg'o gcuwtgu'vq'dg'r tqxkf gf "vq'yj g'go r m{ gg."qt"  
rko kcvkpu'vq'dg'r nceg "wr qp'yj g'go r m{ ggu'gZR quwtg"vq'ngcf 0'

\*e+**ÁCp**{ "tgeqo o gpf gf "rko kcvkqp"wr qp'yj g'go r m{ gg}u'wug'qh'tgur kcvqtu0'

\*f+"Vj g'tguwn'qh'dmqf "ngcf 0'

\*4+**ÁVj** g'go r m{ gt'uj cm'kputwv"gej "rj { ulekp"vq"<

\*c+**ÁP** qvt'gxgcn'gkj gt'kp'yj g'y tkwgp"qr kpkqp"qt"qtcml "y kj "yj g'go r m{ gt."hpf lpi u'lpenw lpi "  
rdqtcvqt{ "tguwnu."qt"fc i pqugu'wptgrcvdf "vq'cp"go r m{ gg}u'qeer cvkpcn'gZR quwtg"vq'ngcf 0'

\*d+**ÁCf** xkug'yj g'go r m{ gg'qh'cp{ "o gf lecn'eqpf kkp."qeer cvkpcn'qt"pqp/qeer cvkpcn"  
y j lej "f lecvgu'hmtj gt"o gf lecn'gzco kpcvkqp"qt"tgcvo gp0'

L**Á** O gf lecn'Tgo qxcn'Rtqvgevkqp"

k**Á** Vgo r qtct{ "o gf lecn'tgo qxcn'cpf "tgwtp"qh'cp"go r m{ gg'f wv'vq"ngxcvdf "dmqf "ngcf "ngxgn0'

\*3+**ÁVj** g'go r m{ gt'uj cm'tgo qxg'cp"go r m{ gg'htqo "y qtnj cxkpi "cp"gZR quwtg"vq'ngcf "cv'qt"cdqvg'yj g"  
cvkqp'ngxgn'qp"gej "qeecukqp"yj cv'c'r g'kqf le"cpf lqt"c'hqmy /wr "dmqf "uco r rpi "vguv'yj cv'kpf lecvgu"  
yj g'go r m{ gg}u'dmqf "ngcf "ngxgn'ku'cv'qt"cdqvg'72"o i lf r0'

\*4+**ÁVj** g'go r m{ gt'uj cm'tgwtp"cp"go r m{ gg'vq'yj ku'qt'yj gt'hqto gt'lqd'ucwuu'yj gp'yj q'eqpugevkg"  
dmqf "uco r rpi "vguu'kpf lecvg'yj cv'yj g'go r m{ gg}u'dmqf "ngcf "ngxgn'ku'cv'qt"dgmy "62"o i lf r0'

\*5+**ÁO** gf lecn'tgo qxcn'r tqvevkqp"dpgghku0'

\*c+**ÁVj** g'go r m{ gt'uj cm'r tqxkf g'cp"go r m{ gg'wr "vq"3: "o qpvy u'qh'o gf lecn'tgo qxcn'r tqvevkqp"  
dpgghku"qp"gej "qeecukqp"yj cv'cp"go r m{ gg'ku'tgo qxgf "htqo "gZR quwtg"vq'ngcf 0'

\*d+**"O** gf lecn'tgo qxcn'r tqvevkqp"dpgghku"o gcu'v'yj cv."cu'napi "cu'yj g'lqd'yj g'go r m{ gg'y cu'tgo qxgf""

" htqo "eqpvkwgu."yj g'go r m{ gg'uj cm'o clpvclp"yj g'vqcn'pqto cn'gctplpi u."ugplqtk{ "cpf "qvj gt""  
" go r m{ o gpv'tki j w'cpf "dpgghku'qh'cp"go r m{ gg."lpenw lpi "yj g'go r m{ ggu'tki j v'vq'yj ku'qt'yj gt""  
" hqto gt'lqd'ucwuu'cu'yj qwi j "yj g'go r m{ gg'yj cf "pqv'dggp"o gf lecn' "tgo qxgf "htqo "yj g"  
" go r m{ gg}u'lqd0'



# LEAD STANDARD

\*6-ÁY qtngt)u'Eqo r gpucvkqp'Erclo u"

Kí'j g'tgo qxgf "go r m{ gg'hkqu'c'erclo 'hqt"Y qtngt)u'Eqo r gpucvkqp'r c{ o gpw'hqt "c'rgcf "tgrcvf "  
f kucdkk\ . 'y gp'j g'go r m{ gt'uj cmleqpvpwg'vq'r tqxkf g'o gf lecn'tgo qxcn'r tqvevkqp'dgpgkhu"  
r gpf kpi 'f kur qukkqp'qh'j g'erclo 0"Vq'j g'gzvvpv'j cv'cp'cy ctf 'ku'o cf g'vq'j g'go r m{ gg'hqt "  
gctpkpi u'ruv'f wtkpi 'j g'r gtlkf "qh'tgo qxcn'j g'go r m{ gt'u'o gf lecn'tgo qxcn'r tqvevkqp'qdrki cvkqp "  
uj cm'dg'tgf wegf "d{ 'uwej "co qwpv0"Vj g'go r m{ gt'uj cm'tgegkxg'pq'etgf k/hqt "Y qtngt)u"  
Eqo r gpucvkqp'r c{ o gpw'tgegkxg' "d{ 'j g'go r m{ gg'hqt "tgcw gpv'tgrcvf "gxr gpugu0

n0Á Go r m{ gg'kphqto cvkqp'cpf "Vtckpkpi "

kÁ Vj g'go r m{ gt'uj cmleqo o wplecv'kphqto cvkqp'eqpegtpkpi "rgcf "j c| ctf u'ceeqtf kpi "vq'j g"  
tgs wtkgo gpw'qh'QUI C'u'J c| ctf 'Eqo o wplecvkqp'Ucpf ctf . 'kpenw kpi "dw'pqv'ko ksf "vq'j g"  
tgs wtkgo gpw'eqpegtpkpi 'y ctpkpi 'uki pu'cpf 'rcdgn. 'O cvgtkn'Uchgv' 'F cv'Uj ggu. 'go r m{ gg"  
kphqto cvkqp'cpf 'vckpkpi 'cpf 'kp'cf f kkkp. 'go r m{ gt'u'uj cmleqo r n' 'y kj 'j g'hqmy kpi 'tgs wtkgo gpv"

\*3-Á Vj g'go r m{ gt'uj cm'r tqxkf g'j g'vckpkpi 'cu'kpkkn'vckpkpi 'r tkqt "vq'j g'vko g'qh'lqd "  
cuuki po gpv0

\*4-Á Vj g'go r m{ gt'uj cm'cnq'r tqxkf g'j g'vckpkpi 'r tqi tco "cv'gcu'cppwcm' 'hqt "gcej "gxr quwtg'cv'qt "  
cdqyg'j g'cewcn'gxn'qp'cp{ 'f c{ 0

kÁ Vj g'vckpkpi 'r tqi tco 'uj cm'kpenw g'j g'hqmy kpi <

\*3-Á Vj g'eqpvpv'qh'3; 4804"cpf 'ku'cr r gpf legu0

\*4-Á Vj g'ur gekle'pcwtg'qh'j g'qr gcvkpu'y j lej 'eqwf 'tguwn'kp'gxr quwtg'vq'rgcf "cdq^ g'j g'cevkqp "  
rgxgn0

\*5-Á Vj g'r wtr qug. 'r tkqt "ugrgevqp. 'hkwp. 'wug. 'cpf 'ko kcvkpu'qh'tgur kcvqtu0

\*6-Á Vj g'r wtr qug'cpf "c'f guetkr vkqp'qh'j g'o gf lecn'uwtxgkn'peg'r tqi tco . 'cpf 'j g'o gf lecn'tgo qxcn'  
r tqvevkqp'r tqi tco 'kpenw kpi 'kphqto cvkqp'eqpegtpkpi 'j g'cf xgtug'j gcnj "ghgcu'cuuqekcvf 'y kj "  
gzeguukxg'gxr quwtg'vq'rgcf "y kj 'r ct'kwrt'cvgpvkqp'vq'j g'cf xgtug'tgr tqf wvwxg'ghgcu'qp'dqj "  
o cngu'cpf 'hgo cngu'cpf "j c| ctf u'vq'j g'hgwu'cpf 'cf f kkkpcn'r tgecwvkpu'hqt "go r m{ ggu'y j q'ctg "  
r tgi pcpv0

\*7-Á Vj g'gpi kpggtkpi "eqpvqnu'cpf 'y qtn'r tcevegu"ugg'3; 4804. 'Cr r gpf kz "D+0

\*8-Á Vj g'eqpvpw'qh'cp{ 'ur gekle'eqo r rckpeg'r rcp0

\*9-Á Kpustwvkpu'vq'go r m{ ggu'j cv'ej gcvkpi 'ci gpw'uj qwf "pqv'dg'wugf "vq'tgo qxg'rgcf "h'qo "  
j gk "dqf kgu'gzev'v'wpf gt 'j g'ustev'f kgevqp'qh'c'h'egpugf 'r j { ulekp0

\*-Á Vj g'go r m{ ggu'u'tki j v'qh'ceegu'vq'tgeqtf u'tgi ctf kpi "j ku'y qtn0

kÁ Ceegu'vq'kphqto cvkqp'cpf 'vckpkpi "o cvgtkn0

\*K'Vj g'go r m{ gt'uj cm'o cng'tgcf k\ 'cxckrdng'vq'cm'chgevgf "go r m{ ggu'c'eqr { 'qh'j g'QUI C'Ucpf ctf "  
cpf 'ku'cr r gpf legu0

\*4+Vj g'go r m{ gt'uj cm'r tqxkf g. 'wr qp'tgs wguv'cm'o cvgtkn'tgrvki "vq'j g'go r m{ gg'kphqto cvkqp'cpf "  
vckpkpi 'r tqi tco "vq'chgevgf "go r m{ ggu'cpf 'j gk 'f guki pcvgf 'tgr tguvpv'kxgu. 'cpf "vq'j g'cuukxcpv "  
ugetgvt { 'cpf 'j g'f kgevqt0

kx+ÁUki pu"



# LEAD STANDARD

"\*3+"Vj g"go r m{ gt'uj cml'quv'yj g'hqmy kpi 'y ctpkpi 'uki pu'lp'gcej 'y qtnlctgc'y j gtg'cp'go r m{ gg'u"  
gxr quwtg'v'gcf 'ku'cdqyg'yj g'RGNO'

Y CTP KPI "

NGCF "Y QTMCTGC"

RQKQP "

P Q'UO QMKPI 'QT'GCVPKI "

\*4+"Vj g"go r m{ gt'uj cml'cuwtg'yj cv'yj g'uki pu'ctg'kwo kpcvgf 'cpf 'engcpgf 'cu'pgeguuct { 'uq'yj cv'yj g"  
ngi gpf 'ku'tgcf k{ 'xkldrgO'

nÁ Tgeqtf nggr kpi "

kÁ Vj g"go r m{ gt'uj cml'guvdrkuj "cpf 'o clpckp'cp'ceewtcvg'tgeqtf 'qh'cm'o qpkqtkpi "cpf 'qyj gt'f cvc"  
wugf 'lp/eqpf wvki "go r m{ gg'gxr quwtg'cuuguu gpwO'

kÁ Gxr quwtg'o qpkqtkpi 'tgeqtf u'uj cml'penmf g<

\*3+"Vj g'f cvg'u+ 'pwo dgt. 'f wcvkqp. 'mccvqp'cpf 'tguwu'qh'gcej 'qh'yj g'uco r ngu'cngr'penmf kpi "c"  
f guetkr vqp'qh'yj g'uco r kpi 'r tqegf wtg'wugf 'v'f gvgto kpg'tgr tguvckxg'go r m{ gg'gxr quwtgO'

\*4+Á "f guetkr vqp'qh'yj g'uco r kpi "cpf 'cpcn' vcei'o gyj qf u'wugf "cpf 'gxkf gpeg'qh'yj gk""ceewtce{ O'

\*5+Á Vj g'v' r g'qh'tgur kcvqt { 'r tqvckxg'f gxlegu'y qtpO'

\*6+Á co g. "uqekn'ugewtkf 'pwo dgt. "cpf 'lqd'enuk'kcvkqp'qh'yj g'go r m{ gg'o qpkqtkgf "cpf 'qh'cm'qyj gt"  
go r m{ ggu'y j qug'gxr quwtg'o gcuwtgo gpv'ku'lpvgpf gf "v'f gtr tguvpo'

kÁ O gf lecn'wtxgkmpg"

\*3+Á Vj g"go r m{ gt'uj cml'guvdrkuj "cpf 'o clpckp'cp'ceewtcvg'tgeqtf 'hqt'gcej "go r m{ gg'uwdlgev'vq"  
o gf lecn'wtxgkmpgO'Vj ku'tgeqtf 'uj cml'penmf g<

\*c+Á Vj g'pco g. "uqekn'ugewtkf 'pwo dgt "cpf 'f guetkr vqp'qh'yj g'f wkgu'qh'yj g'go r m{ ggO'

\*d+Á "eqr { "qh'yj g'rj { ulekp'u'y tkwgp'qr kpkpuO'

\*e+Á guwu'qh'cp { 'cktdqtpg'gxr quwtg'o qpkqtkpi "f qpg'qp'qt'hqt'yj cv'go r m{ gg'cpf "  
r tqxkf gf "v'yj g'rj { ulekpO'

\*f+Á p { "go r m{ gg'o gf lecn'eqo r ncpw'tgrvgf "v'gxr quwtg'v'gcf O'

kx+Á Vj g"go r m{ gt'uj cml'nggr "y g'hqmy kpi 'tgeqtf u. "qt'cuwtg'yj cv'yj g'cwgpf kpi 'rj { ulekp'nggr u'yj g"  
hqmy kpi "tgeqtf u<

\*3+"C"eqr { "qh'yj g'o gf lecn'gzco kpcvqp'tguwu'penmf kpi "o gf lecn'cpf "y qtnl""j kvqt { O'

\*4+Á "f guetkr vqp'qh'yj g'rdqtcvqt { 'r tqegf wtgu'cpf "c"eqr { "qh'cp { "uvcpf ctf u'qt'i vkf gkpgu'wugf "vq"  
kpvgr tgv'yj g'guv'tguwuO'

\*5+Á "eqr { "qh'yj g'tguwu'qh'dkqmi lecn'o qpkqtkpi O'

\*6+Á m'o gf lecn'tgeqtf u'tgrvgf "v'gcf "gxr quwtgO'

x+Á O gf lecn'Tgo qxcn"

\*3+Á Vj g"go r m{ gt'uj cml'guvdrkuj "cpf 'o clpckp'cp'ceewtcvg'tgeqtf 'hqt'gcej "go r m{ gg'tgo qxgf 'h'qo "  
ewtgpv'gxr quwtg'v'gcf O'Gcej "tgeqtf 'uj cml'penmf g<

\*c+Á Vj g'pco g'cpf "uqekn'ugewtkf 'pwo dgt "qh'yj g'go r m{ ggO'



# LEAD STANDARD

\*d+Á Vj g'f cvg'qh'gcej "qecucqp"vj cv'vj g'go r m{ gg'y cu'tgo qxgf 'htqo 'ewttgpv'gxr quwtg'vq'rgcf 'cu' " y gm'cu'vj g'eqtgur qpf kpi 'f cvg'qp'y j lej 'vj g'go r m{ gg'y cu'tgwtpgf 'vq'j ku'qt'j gt'hqto gt'lqd" uncwu0

\*e+Á Cp"gzr nrcvqp"qh'j qy "gcej 'tgo qxcnly cu'qt'ku'dgkpi ""ceeqo r rkuj gf 0'

\*f +C"ucvgo gpv'cdqww'gcej 'tgo qxcnlpf kcvkpi 'y j gjy gt'qt'pqv'vj g'tgcuqp'hqt'vj g'tgo qxcnly cu'cp" grxcvgf "dmqf 'rgcf 'rgxgf 0'

""\*4+"Vj ku'lphqto cvkqp'uj cmldg'o clpvkpgf "qp'hko "cpf kq'lp'vj g'lqd'hkg'lpf ghpkgn 0'

xk+Á " Cxckcdkx{ "

" Vj g'go r m{ gt'uj cmlo cng'cxckcdg'wr qp'tgs wguv'cm'tgeqtf u'tgs wkgf 'vq'dg'o clpvkpgf 0'

xk+Á " Vtcpuht'qh'tgeqtf u'

Y j gpqxt'vj g'go r m{ gt'egcugu'vq'f q'dwukpguu.'vj g'uueguuqt'go r m{ gt'uj cm'tgegkxg'cpf 'tgxkp'cm' tgeqtf u'cu'tgs wkgf 'vq'dg'o clpvkpgf 0'K'vj gtg'ku'pq'uueguuqt'go r m{ gt.'vj g'tgeqtf u'ctg'vq'dg'ugpv'vq' vj g'hqecnlQU C'F kgevt0'

o 0Á Qdugtxcvqp"qh'O qpkqtkpi "

Vj g'go r m{ gt'uj cm'r tqxkf g'chgevgf "go r m{ ggu'qt'vj gk'f guki pcvgf 'tgr tguvpv'xgu'cp'qr r qtwpk{ 'vq' qdugt'xg'cp{ 'o qpkqtkpi "qh'go r m{ gg'gzr quwtg'vq'""rgcf 0'

p0Á Chgevgf 'RtqlgevV{ r g'hqt'33kuegampgqwu'Ur gekn'Vtcf g'Eqpvtcevqtu"

k+Á Wpf gti tqwpf "Uqtci g'Vcpm'F go qrkxqp"

k+Á J qwulpi " Ngcf 'Cdcvgo gpv'r clpv"

k+Á J qwulpi "'Ngcf 'Cdcvgo gpv'\*qj gt+"'

kx+Á J qwulpi "'Kp'Rrceg'O cpci go gpv"

x+Á Kpf wutkcn'Hcekx{ 'O clpvpcpeg'cpf 'Tgpqxcvqp"

xk+Á Kpf wutkcn'Rtqeguu'Gs wkr o gpv'O clpvpcpeg'cpf 'Tgr ckt"

xk+Á Kpuvcncvqp"qh'Tcf kcvqp'Uj kgrf kpi "

xkk+Á Kpuvcncvqp"qh'Uqwpf 'Dcttktu"

kz+Á Ego o gtekn'cpf 'Kpuvkwkqpcn'Tgo qf grkpi "

z+Á Tgkpuwncvqp"qxgt'Gzkukpi 'O kpgtcn'Y qqn "

zk+Á Tgo qxcn'qh'Gzkukpi 'O kpgtcn'Y qqn "

*\*Older forms of mineral wools contained lead.*

q0Á Rtlo ct{ 'Uwtegu'qh'Ngcf 'Gzr quwtg"

k+Á Ngcf "dcugf 'r clpv'cpf 'r clpv'f gdtku0'

k+Á Ngcf "qcmwo 'r kr g'lqkv'o cvgtkcn0'

k+Á Ngcf "dtlemu.'rgcf 'o qtwt'cpf 'rgcf 'uj ggwu0'

kx+Á O gvcnle'rgcf 'f wu0'

x+Á Ngcf 'eqpvclpki 'eqpwtwcvqp'o cvgtkcn0'

k+Á O kpgtcnly qqnlpuwncvqp'y kj 'rgcf 'eqpwo kpcpw0'

k+Á Ngcf 'r kr gu'cpf 'rgcf 'uqrf gt0'



# RESPIRATORY PROTECTION

## Reference Standard

Occupational Safety and Health Administration, Subpart I, 29 CFR 1910.134 Respiratory Protection

## Purpose

This procedure establishes minimum procedures for determining safe use considerations for respiratory protection in our facility.

## Scope

This procedure applies to all of our company employees, all contractors and vendors performing work on company property, and all other individuals who are visiting or have business with our company.

## Responsibilities

Management is responsible for development and review of this program. Management is also responsible for appropriate employee training.

Management and supervisors are responsible for enforcement of this program.

Employees must comply with all procedures outlined in this policy.

Contractors and vendors must comply with all procedures outlined in this policy.

## Definitions

**Contractor:** a non-company employee being paid to perform work in our facility.

**Fit factor:** a quantitative estimate of the fit of a particular respirator to a specific individual. This factor typically estimates the ratio of the concentration of a substance in ambient air to its concentration inside the respirator when worn.

**Fit Test:** a procedure that can be used to help determine the effectiveness of a respirator's fit to the individual face. There are two types of fit tests:

- Qualitative: a pass/fail test that relies on the individual's response to a test agent; and
- Quantitative: a numerical measure of respirator leakage

**IDLH** (Immediately Dangerous to Life or Health): an atmosphere that possesses an immediate threat to life, an irreversible adverse health effect or would impair the ability to escape from the atmosphere.

**Respirator:** any disposable or reusable, device that covers a person's breathing zone for the purpose of removing airborne contaminants.

**SCBA:** Self-Contained Breathing Apparatus.

**Vendor:** A non-company employee being paid to perform a service in our facility.

## Procedure

### Respirator Use

Respirators will only be used to control airborne contaminants when engineering and administrative controls are not feasible.

### Respiratory Protection Program

Our facility has established a Respiratory Protection Program for individuals who are required to wear respirators. This program includes the following:

- Procedures for selecting respirators;
- Medical evaluation for respirator users;



# RESPIRATORY PROTECTION

- Fit test procedures for tight fitting respirators;
- Procedures for proper use of respirators; and
- Procedures for maintaining and storing respirators.

## Respirator Selection

Our facility will do the following for all respirators:

1. Evaluate all potential respiratory hazards and provide an estimate of the exposure (see Appendix A for a list of these locations);
2. Where it is not possible to quantify employee exposure an area will be classified as an IDLH atmosphere and protection will be determined by that level of protection;
3. Use only NIOSH certified respirators within their use limitations; and
4. Select respirators from a sufficient number of models and sizes to ensure proper fit and acceptance on the part of the respirator user.

## IDLH Atmospheres

Respirators used in IDLH atmospheres must be either full face piece pressure demand SCBA with a rated service life of 30 minutes or full face piece pressure demand supplied air with an auxiliary self-contained air supply. Escape only units must be NIOSH certified for the contaminant in the IDLH area.

## Non-IDLH Atmospheres

1. Respirators must be appropriate for the contaminants in the area; and
2. Respirators must be:
  - Atmosphere-supplying or air-purifying equipped with an end-of-service-life indicator; or
  - On a change schedule that takes into account the respirator's cartridge/canister and its exposure to contaminants.

## Particulates

Use respirators such as High Efficiency Particulate Air (HEPA) or a particulate filter certified by NIOSH. See Appendix E for Particulate Respirator Selection.

## Medical Evaluation

1. Our company has a designated licensed health care provider (LHCP);
2. The LHCP will perform medical evaluations using a medical questionnaire or an initial medical examination that obtains the same information as the medical questionnaire (see Appendix C );
3. This evaluation will be administered confidentially, at no cost to the employee, during the employee's normal working hours. The employee will have an opportunity to discuss the questionnaire and examination results with the LHCP;
4. The program administrator will provide the LHCP with the following supplemental information:
  - (a) The type and weight of the respirator to be used by the employee;
  - (b) The duration and frequency of respirator use (including use for rescue and escape);
  - (c) The expected physical work effort;
  - (d) Additional protective clothing and equipment to be worn;
  - (e) Temperature and humidity extremes that may be encountered;
  - (f) A copy of this written respirator protection program; and
  - (g) A copy of the respiratory protection standard (29 CFR 1910.134);
5. Additional medical evaluations may be necessary as determined by the LHCP;
6. A decision about when the next medical re-evaluation will occur will be made by the LHCP;
7. The LHCP will provide the program administrator with a written opinion on the employee's ability to use the respirator. This opinion will be kept on file; and
8. These medical records will be kept for 30 years after the last day of employment, as required by OSHA standard 29 CFR 1910.1020. See Appendix D for information required for employees using particulate filtering facepiece respirators not required under the standard.



# RESPIRATORY PROTECTION

## Fit Testing

1. The program administrator is responsible for fit testing employees. (see Appendix F for a fit test record);
2. Prior to initial use, and **annually** thereafter all employees assigned respirators will be fit tested using one of the methods described in the section on fit testing appropriate for the type of respirator used;
3. Quantitative fit testing procedure must be used for all tight fitting facepieces requiring fit factors greater than 100. Qualitative fit testing procedures (using either irritant smoke, isoamyl acetate, saccharine or Bitrex) can be used for fit testing tight fitting facepieces with fit factors of 100 or less;
4. The record of the most recent fit test will be maintained in the employees respirator program file and will contain:
  - The name of the employee tested;
  - The type of fit test performed;
  - The specific make, model, style and size of respirator tested;
  - The date of the test; and
  - The pass/fail results for qualitative fit tests (or the fit factor and strip chart recording or other recording of the test results for quantitative fit testing); and
5. Additional fit testing will be conducted whenever visual observations of changes in the employee's physical condition, which could affect respirator fit, are indicated. This could include facial scarring, dental changes, cosmetic surgery or an obvious change in body weight, and could be reported by either:
  - The employee;
  - The health care provider (PLHCP);
  - The supervisor; or
  - The program administrator.

## Use of Respirators

The program administrator will develop specific written operating procedures for the use of respirators. Standard requirements for respirator users are:

- Any employee having any condition that interferes with the face to facepiece seal, including any facial hair that comes between the sealing surface of the facepiece and the face is prohibited from wearing a respirator;
- Any employee having any condition that interferes with valve function, including facial hair, is prohibited from wearing a respirator;
- All personal protective equipment including corrective glasses or goggles must be worn in a manner that does not interfere with the seal of the facepiece to the face of the employee;
- Employees must perform a user seal check each time they put on a tight fitting respirator (see Appendix B-1);
- Supervisors must monitor all employees using respirators for the degree of employee exposure and stress. Whenever there is a change in working conditions which will affect respirator effectiveness, the use of respirators will be re-evaluated;
- In order to prevent eye or skin irritation associated with respirator use, employees must leave the work area to wash their faces and respirator facepieces;
- If employees detect vapor or gas breakthrough, or changes in breathing resistance, they must leave the work area to replace the filters or cartridges;
- If employee detects leakage of the facepiece, they must leave the work area and only re-enter it with a properly working respirator;
- If the employee detects vapor or gas breakthrough, changes in breathing resistance, or leakage of the facepiece, the respirator must be repaired or replaced before the employee can return to the work area; and
- If the respirator end of service life indicator (ESLI) indicates the need to change the filter or cartridge, employees will leave the work area to replace it.

## Maintenance and Care

1. The program administrator is responsible for ensuring that respirators are cleaned, disinfected, stored, inspected and repaired;
2. Employees with defective respirators should take them to the program administrator for inspection and repair, or for issuing a new respirator;
3. Employees will be provided with respirators that are clean, sanitary and in good working order;
4. Respirators issued to individual employees will be cleaned and disinfected as often as necessary to remain in a sanitary condition. This will be according to the procedure described by the manufacturer or in Appendix B-2;



# RESPIRATORY PROTECTION

5. Respirators used in fit testing, and respirators used by more than one employee, will be cleaned and disinfected before being worn by different people. This will be according to the procedure described by the manufacturer or the procedure in Appendix B-2 section on respirator cleaning;
6. Respirators will be stored to protect them from damage, contamination, sunlight, extreme temperatures, excessive moisture, and damaging chemicals;
7. Respirators will be packed or stored to prevent deformation of the facepiece and exhalation valve;
8. Employees will inspect their respirators before each use and during cleaning. If any defect is found, the respirator will be immediately removed from service and either discarded or repaired prior to use. Inspections will include:
  - A check of respirator function;
  - A test of the tightness of connections;
  - A visual inspection of the conditions of various parts including the facepiece, head straps, valves, connecting tube and cartridges, canisters or filters, and any other part that may affect the performance of the respirator;
  - A check of elastomeric parts for pliability and signs of deterioration; and
  - A check that the label and color coding indicating NIOSH approval is not removed and remains legible on all filters, cartridges and canisters;
9. Repairs or adjustments to respirators will be made only by people appropriately trained to perform such operations;
10. Repairs or adjustments will only use the respirator manufacturer's NIOSH approved parts designed for the respirator;
11. Repairs to respirators will be made only according to the manufacturer's recommendations and specifications for the type and extent of repairs to be made; and
12. Reducing and admission valves, regulators and alarms must be adjusted or repaired only by the manufacturer or a technician trained by the manufacturer.

## Program Evaluation

1. The program administrator will evaluate this program as necessary to ensure that the program is being properly implemented and to consult with employees to ensure that they are using respirators properly. This evaluation will be performed at least annually;
2. Employees who use respirators will be consulted to determine their views on program effectiveness and any problems with the program;
3. The respiratory protection program administrator will ensure that all problems identified during this assessment are corrected;
4. Initial factors to be assessed during each evaluation include:
  - (a) Respirator fit, including the ability to use the respirator without interfering with effective workplace performance;
  - (b) Appropriate respirator selection for the hazards to which the employee is exposed;
  - (c) Proper respirator use under the workplace conditions the employee encounters;
  - (d) Proper respirator maintenance; and
  - (e) Any other aspect of this program.

## Training

1. The program administrator will train employees as indicated in this section;
2. Employees who are expected to use respirators will be trained:
  - (a) Prior to initial use;
  - (b) Annually;
  - (c) When changes in the workplace or the type of respirator require additional training;
  - (d) When the employee has not retained the required understanding or skill as indicated by inadequacies in the employee's knowledge or use of the respirator; and
  - (e) Whenever any other situation arises, which indicates that additional training is necessary, to ensure the safe use of respirators;
3. The training will be understandable to the employee, provided at no cost to the employee, and be comprehensive;
4. Training on the hazards of chemicals will be done according to the chemical hazard communication program (complying with 29 CFR 1910.1200);
5. Employees will be trained on the proper use of respirators, including putting them on and removing them, any limitations on their use and maintenance, and any other knowledge required for them to complete their tasks as assigned in this program;



# RESPIRATORY PROTECTION

6. Employees will be trained until they can demonstrate their knowledge of all of the following:
  - (a) Why the respirator is necessary;
  - (b) How improper fit, usage, or maintenance can compromise the protective effect of the respirator;
  - (c) The limitations and capabilities of the respirator;
  - (d) How to use the respirator effectively in emergency situations including situations in which the respirator malfunctions;
  - (e) How to inspect, put on and remove, use and check the seals of the respirator;
  - (f) The procedures for maintenance and storage of the respirator;
  - (g) How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators; and
  - (h) The general requirements of this program and the OSHA respiratory protection standard.



# RESPIRATORY PROTECTION

## Respirator Use Locations

Location

Contaminant

Respirator



# RESPIRATORY PROTECTION

## User Seal Check Procedure

The individual who uses a tight-fitting respirator is to perform a user seal check to ensure that an adequate seal is achieved each time the respirator is put on. Either the positive and negative pressure checks listed in this appendix, or the respirator manufacturer-recommended user seal check method must be used. User seal checks are not substitutes for qualitative or quantitative fit tests.

### *1) Facepiece Positive and/or Negative Pressure Checks*

- a) Positive pressure check:* close off the exhalation valve and exhale gently into the facepiece. The face fit is considered satisfactory if a slight positive pressure can be built up inside the facepiece without any evidence of outward leakage of air at the seal. For most respirators this method of leak testing requires the wearer to first remove the exhalation valve cover before closing off the exhalation valve and then carefully replacing it after the test.
- b) Negative pressure check:* close off the inlet opening of the canister or cartridge(s) by covering with the palm of the hand(s) or by replacing the filter seal(s), inhale gently so that the facepiece collapses slightly, and hold the breath for ten seconds. The design of the inlet opening of some cartridges cannot be effectively covered with the palm of the hand. The test can be performed by covering the inlet opening of the cartridge with a thin latex or nitrile glove. If the facepiece remains in its slightly collapsed condition and no inward leakage of air is detected, the tightness of the respirator is considered satisfactory.

### *2) Manufacturer-Recommended User Seal Check Procedures*

The respirator's manufacturer-recommended procedures for performing a user seal check may be used instead of the positive and/or negative pressure check procedures if the employer demonstrates that the manufacturer's procedures are equally effective.



# RESPIRATORY PROTECTION

## Respirator Cleaning Procedures

These procedures are provided for employer use when cleaning respirators. They are general in nature, and the employer may use the manufacturer's cleaning recommendations as an alternative, if these procedures are as effective as those listed here in Appendix B-2. Equivalent effectiveness simply means that the procedures used must accomplish the objectives set forth in Appendix B-2—the procedures must ensure that the respirator is properly cleaned and disinfected in a manner that prevents damage to the respirator and does not cause harm to the user.

### Procedures for Cleaning Respirators

- 1) Remove filters, cartridges, or canisters. Disassemble facepieces by removing speaking diaphragms, demand and pressure-demand valve assemblies, hoses or any components recommended by the manufacturer. Discard or repair any defective parts;
- 2) Wash components in warm (43 deg. C [110 deg. F] maximum) water with a mild detergent or with a cleaner recommended by the manufacturer. A stiff bristle (not wire) brush may be used to facilitate the removal of dirt;
- 3) Rinse components thoroughly in clean, warm (43 deg. C [110 deg. F] maximum), preferably running water. Drain;
- 4) When the cleaner used does not contain a disinfecting agent, respirator components should be immersed for two minutes in one of the following:
  - a) Hypochlorite solution (50 ppm of chlorine) made by adding approximately one milliliter of laundry bleach to one liter of water at 43 deg. C (110 deg. F);
  - b) Aqueous solution of iodine (50 ppm iodine) made by adding approximately 0.8 milliliters of tincture of iodine (6-8 grams ammonium and/or potassium iodide/100 cc of 45% alcohol) to one liter of water at 43 deg. C (110 deg. F); or
  - c) Other commercially available cleansers of equivalent disinfectant quality when used as directed, if their use is recommended or approved by the respirator manufacturer;
- 5) Rinse components thoroughly in clean, warm (43 deg. C [110 deg. F] maximum), preferably running water. Drain. The importance of thorough rinsing cannot be overemphasized. Detergents or disinfectants that dry on facepieces may result in dermatitis. In addition, some disinfectants may cause deterioration of rubber or corrosion of metal parts if not completely removed.
- 6) Components should be hand-dried with a clean lint-free cloth or air-dried.
- 7) Reassemble facepiece, replacing filters, cartridges, and canisters where necessary.
- 8) Test the respirator to ensure that all components work properly.



# RESPIRATORY PROTECTION

## Medical Questionnaire

### To the employer:

Answers to questions in Section 1, and to question 9 in Section 2 of Part A, do not require a medical examination.

### To the employee:

Can you read (circle one): Yes/No

Your employer must allow you to answer this questionnaire during normal working hours, or at a time and place that is convenient to you. To maintain your confidentiality, your employer or supervisor must not look at or review your answers, and your employer must tell you how to deliver or send this questionnaire to the health care professional who will review it.

### Part A. Section 1. (Mandatory) The following information must be provided by every employee who has been selected to use any type of respirator (please print).

1. Today's date: \_\_\_\_\_
2. Your name: \_\_\_\_\_
3. Your age (to nearest year) : \_\_\_\_\_
4. Sex (circle one): Male/Female
5. Your height: \_\_\_\_\_ ft. \_\_\_\_\_ in.
6. Your weight: \_\_\_\_\_ lbs.
7. Your job title: \_\_\_\_\_
8. A phone number where you can be reached by the health care professional who reviews this questionnaire (include the Area Code): \_\_\_\_\_
9. The best time to phone you at this number: \_\_\_\_\_
10. Has your employer told you how to contact the health care professional who will review this questionnaire (circle one): Yes/No
11. Check the type of respirator you will use (you can check more than one category):
  - a. \_\_\_\_\_ N, R, or P disposable respirator (filter-mask, non-cartridge type only).
  - b. \_\_\_\_\_ Other type (for example, half- or full-facepiece type, powered-air purifying, supplied-air, self-contained breathing apparatus).
12. Have you worn a respirator (circle one)? Yes/No  
If "yes," what type(s): \_\_\_\_\_

### Part A. Section 2. (Mandatory) Questions 1 through 9 below must be answered by every employee who has been selected to use any type of respirator (please circle "yes" or "no").

- 1) Do you *currently* smoke tobacco, or have you smoked tobacco in the last month? Yes/No
- 2) Have you *ever had* any of the following conditions?
  - a) Seizures (fits): Yes/No
  - b) Diabetes (sugar disease): Yes/No
  - c) Allergic reactions that interfere with your breathing: Yes/No
  - d) Claustrophobia (fear of closed-in places): Yes/No
  - e) Trouble smelling odors: Yes/No
- 3) Have you *ever had* any of the following pulmonary or lung problems?
  - a) Asbestosis: Yes/No
  - b) Asthma: Yes/No
  - c) Chronic bronchitis: Yes/No



# RESPIRATORY PROTECTION

- d) Emphysema: Yes/No
  - e) Pneumonia: Yes/No
  - f) Tuberculosis: Yes/No
  - g) Silicosis: Yes/No
  - h) Pneumothorax (collapsed lung): Yes/No
  - i) Lung cancer: Yes/No
  - j) Broken ribs: Yes/No
  - k) Any chest injuries or surgeries: Yes/No
  - l) Any other lung problem that you've been told about: Yes/No
- 4) Do you *currently* have any of the following symptoms of pulmonary or lung illness?
- a. Shortness of breath: Yes/No
  - b. Shortness of breath when walking fast on level ground or walking up a slight hill or incline: Yes/No
  - c. Shortness of breath when walking with other people at an ordinary pace on level ground: Yes/No
  - d. Have to stop for breath when walking at your own pace on level ground: Yes/No
  - e. Shortness of breath when washing or dressing yourself: Yes/No
  - f. Shortness of breath that interferes with your job: Yes/No
  - g. Coughing that produces phlegm (thick sputum): Yes/No
  - h. Coughing that wakes you early in the morning: Yes/No
  - i. Coughing that occurs mostly when you are lying down: Yes/No
  - j. Coughing up blood in the last month: Yes/No
  - k. Wheezing: Yes/No
  - l. Wheezing that interferes with your job: Yes/No
  - m. Chest pain when you breathe deeply: Yes/No
  - n. Any other symptoms that you think may be related to lung problems: Yes/No
- 5) Have you *ever had* any of the following cardiovascular or heart problems?
- a) Heart attack: Yes/No
  - b) Stroke: Yes/No
  - c) Angina: Yes/No
  - d) Heart failure: Yes/No
  - e) Swelling in your legs or feet (not caused by walking): Yes/No
  - f) Heart arrhythmia (heart beating irregularly): Yes/No
  - g) High blood pressure: Yes/No
  - h) Any other heart problem that you've been told about: Yes/No
- 6) Have you *ever had* any of the following cardiovascular or heart symptoms?
- a) Frequent pain or tightness in your chest: Yes/No
  - b) Pain or tightness in your chest during physical activity: Yes/No
  - c) Pain or tightness in your chest that interferes with your job: Yes/No
  - d) In the past two years, have you noticed your heart skipping or missing a beat: Yes/No



# RESPIRATORY PROTECTION

- e) Heartburn or indigestion that is not related to eating: Yes/ No
- f) Any other symptoms that you think may be related to heart or circulation problems: Yes/No
- 7) Do you *currently* take medication for any of the following problems?
  - a) Breathing or lung problems: Yes/No
  - b) Heart trouble: Yes/No
  - c) Blood pressure: Yes/No
  - d) Seizures (fits): Yes/No
- 8) If you've used a respirator, have you *ever had* any of the following problems? (If you've never used a respirator, check the following space and go to question 9:)
  - a) Eye irritation: Yes/No
  - b) Skin allergies or rashes: Yes/No
  - c) Anxiety: Yes/No
  - d) General weakness or fatigue: Yes/No
  - e) Any other problem that interferes with your use of a respirator: Yes/No
- 9) Would you like to talk to the health care professional who will review this questionnaire about your answers to this questionnaire: Yes/No

**Questions 10 to 15 below must be answered by every employee who has been selected to use either a full-facepiece respirator or a self-contained breathing apparatus (SCBA). For employees who have been selected to use other types of respirators, answering these questions is voluntary.**

- 10) Have you *ever lost* vision in either eye (temporarily or permanently): Yes/No
- 11) Do you *currently* have any of the following vision problems?
  - a) Wear contact lenses: Yes/No
  - b) Wear glasses: Yes/No
  - c) Color blind: Yes/No
  - d) Any other eye or vision problem: Yes/No
- 12) Have you *ever had* an injury to your ears, including a broken eardrum? Yes/No
- 13) Do you *currently* have any of the following hearing problems?
  - a) Difficulty hearing: Yes/No
  - b) Wear a hearing aid: Yes/No
  - c) Any other hearing or ear problem: Yes/No
- 14) Have you *ever had* a back injury? Yes/No
- 15) Do you *currently* have any of the following musculoskeletal problems?
  - a) Weakness in any of your arms, hands, legs, or feet: Yes/No
  - b) Back pain: Yes/No
  - c) Difficulty fully moving your arms and legs: Yes/No
  - d) Pain or stiffness when you lean forward or backward at the waist: Yes/No
  - e) Difficulty fully moving your head up or down: Yes/No
  - f) Difficulty fully moving your head side to side: Yes/No



# RESPIRATORY PROTECTION

- g) Difficulty bending at your knees: Yes/No
- h) Difficulty squatting to the ground: Yes/No
- i) Climbing a flight of stairs or a ladder carrying more than 25 lbs.: Yes/No
- j) Any other muscle or skeletal problem that interferes with using a respirator: Yes/No

**Part B. Any of the following questions, and other questions not listed, may be added to the questionnaire at the discretion of the health care professional who will review the questionnaire.**

- 1) In your present job, are you working at high altitudes (over 5,000 feet) or in a place that has lower than normal amounts of oxygen? Yes/No  
If "yes," do you have feelings of dizziness, shortness of breath, pounding in your chest or other symptoms when you're working under these conditions? Yes/No
- 2) At work or at home, have you ever been exposed to hazardous solvents, hazardous airborne chemicals (e.g., gases, fumes, or dust), or have you come into skin contact with hazardous chemicals: Yes/No  
If "yes," name the chemicals if you know them: \_\_\_\_\_  
\_\_\_\_\_
- 3) Have you ever worked with any of the materials, or under any of the conditions, listed below?
  - a) Asbestos: Yes/No
  - b) Silica (e.g., in sandblasting): Yes/No
  - c) Tungsten/cobalt (e.g., grinding or welding this material): Yes/No
  - d) Beryllium: Yes/No
  - e) Aluminum: Yes/No
  - f) Coal (for example, mining): Yes/No
  - g) Iron: Yes/No
  - h) Tin: Yes/No
  - i) Dusty environments: Yes/No
  - j) Any other hazardous exposures: Yes/No  
If "yes," describe these exposures: \_\_\_\_\_  
\_\_\_\_\_
- 4) List any second jobs or side businesses you have: \_\_\_\_\_  
\_\_\_\_\_
- 5) List your previous occupations: \_\_\_\_\_  
\_\_\_\_\_
- 6) List your current and previous hobbies: \_\_\_\_\_  
\_\_\_\_\_
- 7) Have you been in the military services? Yes/No  
If "yes," were you exposed to biological or chemical agents (either in training or combat)? Yes/No
- 8) Have you ever worked on a HAZMAT team? Yes/No
- 8) Other than medications for breathing and lung problems, heart trouble, blood pressure, and seizures mentioned earlier in this questionnaire, are you taking any other medications for any reason (including over-the-counter medications)? Yes/No  
If "yes," name the medications if you know them: \_\_\_\_\_



# RESPIRATORY PROTECTION

- 10) Will you be using any of the following items with your respirator(s)?
- a) HEPA Filters: Yes/No
  - b) Canisters (for example, gas masks): Yes/No
  - c) Cartridges: Yes/No
- 11) How often are you expected to use the respirator(s) (circle "yes" or "no" for all answers that apply to you)?
- a) Escape only (no rescue): Yes/No
  - b) Emergency rescue only: Yes/No
  - c) Less than 5 hours *per week*: Yes/No
  - d) Less than 2 hours *per day*: Yes/No
  - e) 2 to 4 hours per day: Yes/No
  - f) Over 4 hours per day: Yes/No
- 12) During the period you are using the respirator(s), is your work effort:
- a) *Light* (less than 200 kcal per hour): Yes/No  
If "yes," how long does this period last during the average shift: \_\_\_\_\_ hrs. \_\_\_\_\_ mins.  
Examples of a light work effort are *sitting* while writing, typing, drafting, or performing light assembly work; or *standing* while operating a drill press (1-3 lbs.) or controlling machines.
  - b) *Moderate* (200 to 350 kcal per hour): Yes/No  
If "yes," how long does this period last during the average shift: \_\_\_\_\_ hrs. \_\_\_\_\_ mins.  
Examples of moderate work effort are *sitting* while nailing or filing; *driving* a truck or bus in urban traffic; *standing* while drilling, nailing, performing assembly work, or transferring a moderate load (about 35 lbs.) at trunk level; *walking* on a level surface about 2 mph or down a 5-degree grade about 3 mph; or *pushing* a wheelbarrow with a heavy load (about 100 lbs.) on a level surface.
  - c) *Heavy* (above 350 kcal per hour): Yes/No  
If "yes," how long does this period last during the average shift: \_\_\_\_\_ hrs. \_\_\_\_\_ mins.  
Examples of heavy work are *lifting* a heavy load (about 50 lbs.) from the floor to your waist or shoulder; working on a loading dock; *shoveling*; *standing* while bricklaying or chipping castings; *walking* up an 8-degree grade about 2 mph; climbing stairs with a heavy load (about 50 lbs.).
- 13) Will you be wearing protective clothing and/or equipment (other than the respirator) when you're using your respirator? Yes/No  
If "yes," describe this protective clothing and/or equipment: \_\_\_\_\_  
\_\_\_\_\_
- 14) Will you be working under hot conditions (temperature exceeding 77 degrees F)? Yes/No
- 15) Will you be working under humid conditions? Yes/No
- 16) Describe the work you'll be doing while you're using your respirator(s):  
\_\_\_\_\_  
\_\_\_\_\_
- 17) Describe any special or hazardous conditions you might encounter when you're using your respirator(s) (for example, confined spaces, life-threatening gases):  
\_\_\_\_\_  
\_\_\_\_\_
- 18) Provide the following information, if you know it, for each toxic substance that you'll be exposed to when you're using your respirator(s):  
Name of the first toxic substance: \_\_\_\_\_



# RESPIRATORY PROTECTION

Estimated maximum exposure level per shift: \_\_\_\_\_

Duration of exposure per shift: \_\_\_\_\_

Name of the second toxic substance: \_\_\_\_\_

Estimated maximum exposure level per shift: \_\_\_\_\_

Duration of exposure per shift: \_\_\_\_\_

Name of the third toxic substance: \_\_\_\_\_

Estimated maximum exposure level per shift: \_\_\_\_\_

Duration of exposure per shift: \_\_\_\_\_

The name of any other toxic substances that you'll be exposed to while using your respirator:

\_\_\_\_\_  
\_\_\_\_\_

- 19) Describe any special responsibilities you'll have while using your respirator(s) that may affect the safety and well-being of others (for example, rescue, security):

\_\_\_\_\_  
\_\_\_\_\_



# RESPIRATORY PROTECTION

## Information for Employees Using Respirators When Not Required Under the Standard

Respirators are an effective method of protection against designated hazards when properly selected and worn. Respirator use is encouraged, even when exposures are below the exposure limit, to provide an additional level of comfort and protection for workers. However, if a respirator is used improperly or not kept clean, the respirator itself can become a hazard to the worker. Sometimes, workers may wear respirators to avoid exposures to hazards, even if the amount of hazardous substance does not exceed the limits set by OSHA standards. If your employer provides respirators for your voluntary use, or if you provide your own respirator, you need to take certain precautions to be sure that the respirator itself does not present a hazard.

You should do the following:

1. Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations.
2. Choose respirators certified for use to protect against the contaminant of concern. NIOSH, (National Institute for Occupational Safety and Health) of the U.S. Department of Health and Human Services, certifies respirators. A label or statement of certification should appear on the respirator or respirator packaging. It will tell you what the respirator is designed for and how much it will protect you.
3. Do not wear your respirator into atmospheres containing contaminants for which your respirator is not designed to protect against. For example, a respirator designed to filter dust particles will not protect you against gases, vapors, or very small solid particles of fumes or smoke.
4. Keep track of your respirator so that you do not mistakenly use someone else's respirator.

I have read the instructional statement above, understand the content and have had the opportunity to have my questions answered.

Employee Signature: \_\_\_\_\_

Date: \_\_\_\_\_



# RESPIRATORY PROTECTION

## Particulate Respirator Selection

The filter packaging of Part 84 particulate respirators contain certification numbers of the form TC-84A-XXXX. Users can identify three types of filters with three efficiencies each, as follows:

- Respirators with N100, N99, and N95 filters (99.97%, 99%, and 95% efficient filters) may be used for any solid or non-oil containing particulate contaminant.
- Respirators with R100, R99, and R95 filters (99.97%, 99%, and 95% efficient filters) may be used for any particulate contaminant. If used for an oil containing particulate, a one-shift use limit applies.
- Respirators with P100, P99, and P95 filters (99.97%, 99%, and 95% efficient filters) may be used for any particulate contaminant. If oil particles are present and the filter is to be used for more than one shift, use only P-series.

No particle size limits apply to respirators with Part 84 filters. Protection for the user is based on the efficiency of the filter and the PEL of the contaminant, usually determined by an industrial hygienist

To select the correct respirator for protection against particulates, the following conditions must be known:

- The identity and concentration of the particulates in the workplace air
- The OSHA or MSHA permissible exposure limit (PEL), the NIOSH recommended exposure limit (REL), or other occupational exposure limit for the contaminant
- The hazard ratio (HR) (i.e., the airborne particulate concentration divided by the exposure limit)
- The Assigned Protection Factor (APF) for the class of respirator (the APF should be greater than the (HR))
- The immediately dangerous to life or health (IDLH) concentration, including oxygen deficiency [NIOSH 1994]
- Any service life information available for combination cartridges or canisters

Multiplying the occupational exposure limit by the APF for a respirator gives the maximum workplace concentration in which that respirator can be used. For example, if the commonly accepted APF for a half-mask respirator is 10 and the PEL is 5mg/m<sup>3</sup>, then 50 milligrams/cubic meter is the highest workplace concentration in which a half-mask respirator can be used against that contaminant. If the workplace concentration is greater than 50mg/m<sup>3</sup>, a more protective respirator (with a higher APF) should be used. In no case should an air-purifying respirator be used in IDLH concentrations, or in areas that are oxygen deficient.



# RESPIRATORY PROTECTION

## Employee Fit Test Record

Employee Name: \_\_\_\_\_

Date of Fit Test: \_\_\_\_\_ Conducted By: \_\_\_\_\_

Respirator:                      Make: \_\_\_\_\_

Model: \_\_\_\_\_

Style: \_\_\_\_\_

Size: \_\_\_\_\_

**Type of Test:**

- \* Qualitative (QLFT)
  - \* Isoamyl Acetate
  - \* Saccharin
  - \* Bitrex
  - \* Irritant Smoke
  - \* Other: \_\_\_\_\_

☐ Passed

☐ Failed

Quantitative (QNFT)

\*

Comments:

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I agree with this assessment: \_\_\_\_\_

Employee Signature

\_\_\_\_\_ Date



# BLOOD BORN PATHOGENS

## BLOODBORNE EXPOSURE PROCEDURE

In order to maintain a safe workplace, it is necessary to communicate and train employees that may be exposed to blood or body fluids and the possibility of contracting bloodborne diseases. This procedure will minimize or eliminate exposure to bloodborne pathogens such as Hepatitis B, virus (HBV), and human immune deficiency virus (HIV). All blood and body fluids shall be considered as potentially infectious material and will be handled as directed by this procedure and the Federal regulations as provided in *29 CFR 1910.1030, occupational exposure to bloodborne pathogens*.

## EXPOSURE DETERMINATION

Employees with “reasonable anticipated” skin, eye, mucous membrane, or parental (through the skin) contact with blood or other potentially infectious materials, which may be a result of the performance of the employee’s duties, be considered to have an “occupational exposure” risk. Note: This exposure determination is made without regard to the use of protective equipment.

1. There are no job classifications in which all employees have occupational exposure.
2. Employees who potentially have exposure are as follows:
  - a. Employees assigned to housekeeping where certain soiled linens are found.
  - b. Certain laundry workers, security, and restaurant workers may have exposures under certain situations.
3. Employees who are potentially exposed shall take the appropriate protective measures including the use of personal protective equipment prior to handling potentially infectious materials.

## EMPLOYEE TRAINING

All employees who will fall under the requirements of this program will receive training prior to starting work in assigned areas. The training is to be conducted by a source authorized by the safety committee. It will also meet the criteria established by the bloodborne pathogen standard. The training will include:

1. What the Standard is and what it is meant to do.
2. The risks associated with blood, bloodborne pathogens, and other potentially-infectious material.
3. The location of this program and how to access to use it. See your General Manager.
4. The controls to be used when working in areas where there is blood, bloodborne pathogens, or other potentially infectious material.



# BLOOD BORN PATHOGENS

## PERSONAL PROTECTIVE EQUIPMENT

All necessary personal protective equipment will be maintained in first-aid kits.

1. Vinyl or latex gloves shall be worn whenever there is a potential for the hands to have direct contact with blood and/or body fluids; whether treating an injured employee or cleaning soiled surfaces. All suite keepers must wear gloves when stripping beds, cleaning bathrooms, emptying trash, and when there is evidence of exposure.
2. Plastic CPR mouthpieces will be in all first aid kits, available in case of the need for mouth-to-mouth resuscitation.
3. After removing gloves, or in the case in which direct skin contact with blood or body fluids, wash the exposed area with disinfectant soap and water.
4. If your clothing becomes contaminated with blood or body fluid, the soiled clothing must be removed as soon as possible to prevent prolonged skin contact. Immediately wash the skin area with soap and water. Clothing must be bagged and washed with a chlorinated detergent.

## BIOHAZARD SAFETY SUPPLIES

The following biohazard safety supplies shall be maintained:

1. Vinyl gloves
2. Plastic CPR mouthpiece
3. Absorbent materials
4. Protective glasses
5. Red plastic biohazard bags
6. Biohazard labels
7. Incident and inventory cards
8. Disinfectant soap

Any employee using the biohazard supplies is required to fill out an incident report and immediately notify the General Manager.



# **BLOOD BORN PATHOGENS**

## **POST ACCIDENT CLEANING**

1. Any potentially infectious waste shall be placed in a plastic bag, sealed, and labeled. If there is a potential for any leaking, the plastic bag then must be placed inside of another plastic bag which is clearly identified as containing biohazard waste and sealed prior to disposal. All biohazard waste shall be disposed of in accordance with local, State, and Federal regulations.
2. All linen suspected of being contaminated is bagged separately from other linen and labeled before being sent to the laundry. Use biodegradable bags. Biohazard laundry will be washed separately from other linen.

## **EMPLOYEE EXPOSURE**

1. Any employee who could be anticipated to have an occupational exposure or who is trained in CPR/first aid shall be offered the HBV vaccination at times prescribed under this program and prescribed under the bloodborne pathogen standard.
2. All unexpected exposure or exposure unprotected by personal protective equipment which results in the direct contact of blood or body fluids with eye, mouth mucous membrane, non-intact skin, or parental contact shall be reported to the General Manager.

## **POST EXPOSURE FOLLOW-UP**

1. Following the report of an exposure, the affected employee will be offered a confidential medical evaluation and follow-up medical care as required. This may include blood collection, additional medical treatment or evaluation, or counseling as deemed necessary by the attending medical doctor.
2. The employee will be provided with a copy of the medical evaluation within 15 days of the original evaluation. The written report will provide:
  - a. Whether or not the employee was administered the HBV vaccination.
  - b. Whether the employee was informed as to the results of the evaluation.
  - c. Whether the employee was told about any medical conditions resulting from the exposure to blood and/or body fluids which may require further evaluation or treatment.



# BLOOD BORN PATHOGENS

Note: Any other medical findings or diagnoses not related to this exposure shall not be reported.

## RECORDKEEPING

1. The following records will be maintained for employees with occupational exposure.
  - a. Copy of the medical evaluation, medical testing, and follow-up visits
  - b. Copy of the medical doctor's written opinion
  - c. Copies of all information given to the medical doctor
  - d. Copy of employee's hepatitis B vaccination status including the dates of all hepatitis vaccinations.

Note: Employee records shall be maintained for at least the duration of employment plus 30 years.

## ATTACHMENTS

- Forms:
1. Hepatitis B vaccination declination
  2. Exposure Incident report
  3. Blood collect/test source individual
  4. Consent for blood collection and sampling
  5. Consent for declination of blood sampling
  6. Consent for sampling after initial declination
  7. Consent for records release from attending physician



# BLOOD BORN PATHOGENS

## APPENDIX A

### Hepatitis B Vaccine Declination

I understand that due to my occupational exposure to blood or other potentially- infectious materials I may be at risk of acquiring Hepatitis B virus (HBV) infection. I have been given the opportunity to be vaccinated with Hepatitis B vaccine, at no charge to myself. However, I decline Hepatitis B vaccination at this time. I understand that by declining this vaccine, I continue to be at risk of acquiring Hepatitis B, a serious disease. If in the future I continue to have occupational exposure to blood or other potentially infectious materials, and if I want to, I can receive the vaccination series at no charge to me.

Signed\_\_\_\_\_Date\_\_\_\_\_

Witnessed\_\_\_\_\_Date\_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX B

### Exposure Incident Report

1. Employee Name: \_\_\_\_\_

2. Job Title: \_\_\_\_\_

3. Route(s) of exposure (body parts in direct contact with blood/body fluids):  
\_\_\_\_\_

4. Duties being performed at time of exposure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Description of exposure incident: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Source individual (indicate only whether this person is known or unknown):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_ Date \_\_\_\_\_

Witnessed \_\_\_\_\_ Date \_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX C

### Blood Collect/Test Source Individual

I understand that a co-worker has been exposed to my blood or body fluids. I understand that if my blood/body fluids are infectious, my co-worker is at risk of acquiring Hepatitis B virus (HBV) or Human Immunodeficiency Virus (HIV). I consent at this time to the collection and sampling of my blood for HBV and HIV. I consent to allow the results of my testing to be given to my co-worker with the understanding that these are to be kept confidential by this exposed employee.

Signed\_\_\_\_\_Date\_\_\_\_\_

Witnessed\_\_\_\_\_Date\_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX D

### Consent for Blood Collection and Sampling

I understand that I have been exposed to potentially infectious blood/body fluids/materials in an exposure incident. I understand that due to my exposure I may be at risk of acquiring Hepatitis B virus (HBV), Human Immunodeficiency virus (HIV), and/or other bloodborne diseases. I consent at this time to allow my blood to be collected and sampled for HBV and HIV as often as deemed necessary by my employer-selected physician for evaluation and the recommendation for treatment of any illnesses I may have acquired from this exposure. I understand that this is at no cost to myself and that the results of the testing shall be kept confidential unless I give written consent for their release.

Signed\_\_\_\_\_Date\_\_\_\_\_

Witnessed\_\_\_\_\_Date\_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX E

### Consent for Blood Collection Declination of Sampling

I understand that I have been exposed to potentially infectious blood/body fluids/materials in an exposure incident. I understand that due to my exposure I may be at risk of acquiring Hepatitis B virus (HBV), Human Immunodeficiency virus (HIV), and/or other bloodborne diseases. I consent at this time to allow my blood to be collected. However, I decline to have my blood tested for HBV and HIV. I understand that by declining this testing, I cannot be sure that I have not acquired HBV or HIV. I understand that my blood will be saved for 90 days and that I may give written consent within 90 days of my exposure to proceed with the blood sampling.

Signed\_\_\_\_\_Date\_\_\_\_\_

Witnessed\_\_\_\_\_Date\_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX F

### Consent for Sampling after Initial Declination

I understand that I have been exposed to potentially-infectious blood/body fluids/materials on \_\_\_\_\_ (date of exposure), and on \_\_\_\_\_ (date of sampling declination), I declined to have my blood sampled for Hepatitis B Virus (HBV) and Human Immunodeficiency Virus (HIV). I consent at this time to allow my blood in storage to be sampled for HBV and HIV. I understand that this is at no cost to myself and that the results of the testing shall be kept confidential unless I give written consent for their release.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Witnessed \_\_\_\_\_ Date \_\_\_\_\_



# BLOOD BORN PATHOGENS

## APPENDIX G

### Consent for Records Release from Attending Physician

I understand that I have been exposed to potentially infectious blood/body fluids/materials in an exposure incident. The attending physician has evaluated my condition as a result of this incident. I consent at this time to the release of my medical records from the attending physician. I understand that these medical records may include my diagnosis, recommendations for treatment, and treatment rendered. I understand that these records will be kept confidential by the Human Resources Department.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Witnessed \_\_\_\_\_ Date \_\_\_\_\_



# AERIAL LIFT SAFETY

COMPANY NAME

AERIAL LIFT SAFETY PROGRAM

Aerial Lift Program .....	1
Aerial Lift Safety Flyer .....	4
Presentation Quiz.....	6
Presentation Sign-in Log .....	7

Approved by:

Date:



# AERIAL LIFT SAFETY

## COMPANY NAME

Effective Date: [Effective\_Date]

Revision #:

## REFERENCE STANDARD

This procedure is developed in accordance with provisions as outlined in the OSHA Safety and Health Regulations for Construction 29 CFR Part 1926, Subpart L: Scaffolds, specifically 29 CFR 1926.453 – Aerial Lifts.

## PURPOSE

This policy establishes how **COMPANY NAME** will enhance safe working conditions at this facility through the establishment of specific guidelines for the use of specific types of aerial lifts.

## SCOPE

This policy applies to all **COMPANY NAME** employees and all company contractors, visitors and vendors.

## RESPONSIBILITIES

Senior management will:

- Require the full implementation and integration of this policy into daily operations, as applicable, in all areas of responsibility and with all direct reports;
- Assess the ability of managers and supervisors to apply this policy in their areas of responsibility; and
- Provide fall protection to affected employees.

The Safety Administrator will administer all aspects of this policy and will:

- Maintain and update the written program as required;
- Coordinate necessary training for all affected employees;
- Provide necessary technical assistance to managers and supervisors; and
- Periodically assess the effectiveness of this program and its implementation in all affected areas of the company.

Managers and supervisors must:

- Know how this policy applies to those under their direct control;
- Integrate and enforce the provisions of this policy in their areas of responsibility;
- Periodically audit the effectiveness of this policy in their areas of responsibility;
- Coordinate training for all affected employees;
- Provide appropriate coaching and corrective action when necessary to ensure this policy is fully integrated; and
- Investigate and document all incidents that result in employee injury.

All affected employees must:

- Integrate the provisions of this policy into their daily activities as applicable;
- Follow all training, instructions and directives relative to this policy;
- Seek clarification whenever there are questions concerning the application of this policy into daily operations;
- Bring to management's attention any unsafe or hazardous conditions or practices that may cause injury to themselves or other employees; and
- Report any incident that causes injury to an employee, regardless of its nature.

## DEFINITIONS

**Aerial Lift:** Any vehicle-mounted aerial devices used to elevate personnel to job sites above ground, including:

- Extensible boom platforms;
- Aerial ladders;
- Articulating boom platforms;
- Vertical towers; and
- Any combination of these devices.



# AERIAL LIFT SAFETY

Aerial equipment may be made of metal, wood, fiberglass reinforced plastic (FRP) or other material. Aerial equipment may be powered or manually operated. Aerial lifts may or may not be capable of rotating about a substantially vertical axis.

## LIFT MODIFICATIONS

Aerial lifts may be field-modified for uses other than those intended by the manufacturer. However, field modifications must be certified in writing by the manufacturer or by any other equivalent entity, such as a nationally recognized testing laboratory, to be in conformity with all applicable provisions and to be at least as safe as the equipment was before modification.

## USE PROCEDURES

When using any form of aerial lift, employees are expected to follow these guidelines:

- Lift controls must be tested prior to use to determine that controls are in safe working condition;
- Only authorized persons can operate an aerial lift;
- Employees must always stand firmly on the floor of the basket and may not sit or climb on the edge of the basket or use planks, ladders or other devices for a work position;
- A body belt as part of a tethering system or restraint system must be worn and a lanyard attached to the boom or basket when working from an aerial lift;
- Belting off to an adjacent pole, structure or equipment while working from an aerial lift is not permitted;
- Do not exceed boom and basket load limits specified by the manufacturer;
- The brakes must be set, and when outriggers are used, they must be positioned on pads or a solid surface. Wheel chocks must be installed before using an aerial lift on an incline provided they can be safely installed;
- An aerial lift truck must not be moved when the boom is elevated in a working position with men in the basket, except for equipment that is specifically designed for this type of operation;
- Before moving an aerial lift for travel, the boom(s) must be inspected to see that it is properly cradled and that the outriggers are in the stowed position;
- Aerial ladders must be secured in the lower traveling position by both the locking device on top of the truck cab and the manually operated device at the base of the ladder *before* the truck is moved for highway travel;
- Articulating boom and extensible boom platforms, primarily designed as personnel carriers, must have both platform (upper) and lower controls. Upper controls must be in or beside the platform within easy reach of the operator. Lower controls must provide for overriding the upper controls. Controls must be plainly marked with their function. Low-level controls may be operated *only if* the employee in the lift has authorized it, except in case of emergency;
- Climbers may not be worn while performing work from an aerial lift; and
- The insulated portion of an aerial lift cannot be altered in any manner that might reduce its insulating value.

## ENFORCEMENT

Compliance with these and all other company safety rules are considered conditions of employment at **COMPANY NAME**. The crew supervisor or foreman reserves the right to issue disciplinary warnings to employees, up to and including termination, for failure to follow the guidelines in this plan.

## ACCIDENT INVESTIGATIONS

All incidents that result, or nearly result, in injury to workers must be reported and investigated, regardless of their nature. All incidents will be investigated as soon as possible to identify their cause and develop means of preventing future incidents.

In the event of an accident, this Aerial Lift Plan will be reviewed to determine if additional provisions or practices, procedures or training should be implemented to prevent similar incidents in the future.

## POLICY EVALUATIONS AND UPDATES

It is our goal to maintain a safety program that is understandable, effective and one that promotes a safe work environment. Any employee can make recommendations for improvement to this program or any other aspect of our safety system. These suggestions should be directed to any member of management, any safety committee member or to the safety administrator.



# AERIAL LIFT SAFETY

As a matter of policy, this program will be reviewed on an annual basis by the safety administrator to determine if all aspects still meet the needs of this organization. If significant events taking place during the year indicate the program is less than effective, an immediate evaluation will be conducted and appropriate steps taken to increase the reliability of this plan.

Date of Review	Name of Reviewer	Changes Required Yes or No	Current Revision Number



# AERIAL LIFT SAFETY

## Quiz Answers

1) d 2) b 3) c 4) c 5) b 6) a 7) c 8) a

## Aerial Lift Certification Card

### AERIAL LIFT CERTIFICATION



Company Name

City, State

This card certifies that  
is authorized to operate an aerial lift  
in accordance with 29 CFR 1910.67 1926.21

Date of Training:

Effective Until:

Certified By:

### AERIAL LIFT CERTIFICATION



Company Name

City, State

This card certifies that  
is authorized to operate an aerial lift  
in accordance with 29 CFR 1910.67 1926.21

Date of Training:

Effective Until:

Certified By:

### AERIAL LIFT CERTIFICATION



Company Name

Address

This card certifies that  
is authorized to operate an aerial lift  
in accordance with 29 CFR 1910.67 1926.21

Date of Training:

Effective Until:

Certified By:



## AERIAL LIFT SAFETY QUIZ

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

**Place a checkmark next to the best answer for each of the following questions:**

1. Which of the following is a form of aerial lift?
  - a. ☐ Vertical towers
  - b. ☐ Articulating boom platforms
  - c. ☐ Aerial ladders
  - d. ☐ All of the above
2. You can never modify an aerial lift.
  - a. ☐ True
  - b. ☐ False
3. Lower controls on a boom:
  - a. ☐ should be the primary way to operate a lift.
  - b. ☐ are not required
  - c. ☐ should be used only when the employee in the basket allows, or in case of an emergency.
4. Wheels must be chocked when a lift:
  - a. ☐ is in operation.
  - b. ☐ is in storage.
  - c. ☐ is used on an incline.
5. In order to operate a lift you must:
  - a. ☐ have operated a lift before.
  - b. ☐ have been train and authorized to do so.
  - c. ☐ have worked at the company for five years.
6. You should never attach a restraining device to anything outside a lift platform.
  - a. ☐ True
  - b. ☐ False
7. Aerial lift controls need to be tested every:
  - a. ☐ Year
  - b. ☐ Month
  - c. ☐ Day
8. You can move a lift while there are workers in an elevated boom if it is designed to do so.
  - a. ☐ True
  - b. ☐ False







[illegible]



# PERMIT REQUIRED CONFINED SPACE

Effective Date: [Effective\_Date]

Revision #:

## Reference Standard

Occupational Safety and Health Administration; Permit Required Confined Spaces, Subpart J,

29 CFR 1910.146

## Purpose

This procedure establishes minimum procedures to be used for classifying confined spaces and for safe entry into those spaces.

## Scope

This procedure applies to all of our company employees, all contractors and vendors performing work on company property, and all other individuals who are visiting or have business with our company.

## Responsibilities

- Management is responsible for development and review of this program. Management is also responsible for appropriate employee training.
- Management and supervisors are responsible for enforcement of this program.
- Employees shall comply with all procedures outlined in this policy.
- Contractors and vendors shall comply with all procedures outlined in this policy.

## Definitions

**Acceptable Entry Conditions:** Conditions that must exist in a permit space to allow entry and to ensure that employees involved with a permit required confined space entry can safely enter and work within the space.

**Attendant:** An individual stationed outside one or more permit spaces who monitors the authorized entrant(s) and who performs all attendant duties assigned in our program.

**Authorized Entrant:** An employee who is authorized by us to enter a permit space.

**Confined Space:** A space that:

- Is large enough and so configured that an employee can bodily enter and perform assigned work; and
- Has limited or restricted means of entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults and pits are spaces that may have limited means of entry); and
- Is not designed for human occupancy

**Contractor:** A non-company employee being paid to perform work in our facility.

**Entry Permit:** The written or printed document that is provided by our facility to allow and control entry into a permit space and that contains information specified in this written program.

**Entry Supervisor:** The person (such as the employer, foreman, or crew chief) responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required. The entry supervisor can also serve as an entrant or attendant.

**Hazardous Atmosphere:** An atmosphere that may expose employees to the risk of death, incapacitation, impairment of abilities to self-rescue (escape unaided from a permit space), injury, or acute illness from one or more of the following:

- Flammable gas, vapor, or mist in excess of 10% of the Lower Flammable Level (LFL);
- Airborne combustible dust at a concentration that meets or exceeds its LFL (Can be approximated where the dust obscures vision at a distance of 5 feet or less);
- Atmospheric oxygen concentration below 19.5% or above 23.5%;



# PERMIT REQUIRED CONFINED SPACE

- Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in 29 CFR 1910 Subpart G, Occupational Health and Environmental Control or in Subpart Z, Toxic and Hazardous Substances; or
- Any other atmospheric condition that is Immediately Dangerous to Life or Health (IDLH).

**Non-Permit Confined Space:** A space that does not contain or have the potential to contain any hazard capable of causing death or serious physical harm.

**Permit-Required Confined Space:** A confined space that has one or more of the following characteristics:

- Contains or has the potential to contain a hazardous atmosphere;
- Contains a material that has the potential for engulfing an entrant;
- Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross section; or
- Contains any other recognized serious safety or health hazard.

**Retrieval System:** Equipment (including a retrieval line, chest or full-body harness, wristlets, if appropriate, and a lifting device or anchor) used for non-entry rescue of persons from a confined space.

**Vendor:** A non-company employee being paid to perform a service in our facility.

## Procedures

### Space Evaluation

All permit required confined spaces in our facility are identified (see Appendix A). We will continue to evaluate all new equipment and process changes to ensure that no additional permit-required spaces are created.

### Space Marking

All permit required confined spaces will be conspicuously marked with a warning sign at each potential entry point. A sign reading “DANGER--PERMIT--REQUIRED CONFINED SPACE, DO NOT ENTER” or using other similar language.

### Written Program

We will maintain and update this written program. It is available to all employees and their representatives for review.

## Non-Permit Required Confined Spaces

Entry into non-permit required confined spaces is not regulated by this procedure. Employees are always required to evaluate the potential hazards of all jobs prior to beginning work. If any questions or concerns arise during the evaluation, the employee should discuss the issue with his or her supervisor or the program administrator.

## Alternate Procedures

Permit required confined spaces can be reclassified as non-permit required spaces as described below:

If the permit space poses no actual or potential atmospheric hazards and if all hazards within the space are eliminated without entry into the space, the permit space may be reclassified as a non-permit space for as long as the non-atmospheric hazards are eliminated.

The program administrator, using properly calibrated direct-reading instrumentation, will test for oxygen content, flammable gases and vapors, and potential toxic air contaminants. Readings will be taken in the order listed in this paragraph. Acceptable readings include:

- Oxygen Content: Between 19.5% and 23.5%
- Flammable Gases/Vapors: Below 10% of the lower flammable limit
- Toxic Air Contaminant: “Any air conditions defined as a hazardous atmosphere” by this policy



# PERMIT REQUIRED CONFINED SPACE

Testing shall be done from the exterior of the entrance to the space. At no time will any portion of an employee's body break the plane of the entrance to the space to conduct atmospheric testing. If entry into the space is required to conduct testing or eliminate hazards, entry shall be done in accordance with permit space entry procedures outlined in this policy.

If, after testing is complete, it is determined there are no atmospheric hazards or any other hazards that could potentially cause injury or harm, the space can be reclassified as a non-permit space and eliminated from the permit-space entry procedures. The atmosphere will be monitored continuously during the entry. This reclassification may remain in force as long as atmospheric hazards are not present.

## Permit-Required Confined Space Entry

### Preparation of the Space

1. An entry supervisor will be assigned to complete the permit (see Appendix B)
2. The following steps will be completed and checked off as applicable on the permit:
  - All connecting lines, ducts and pipes connected to chemical, gas and utility sources will be broken and capped or blanked;
  - All mechanical, hydraulic and electrical hazards (e.g. agitators, machine drives, electrical lines, etc.) will be controlled through lockout/tagout;
  - The space will be rinsed and/or dried if there is a build-up of hazardous or slippery material on the walls of the space;
  - The space will be cooled down to 110 degrees Fahrenheit or less;
  - Safe access to the space will be provided;
  - Any open entrances will be appropriately blocked to prevent accidental entry;
  - Adequate lighting will be provided either through low voltage lighting or through 110 Volt plugged into a Ground Fault Circuit Interrupter (GFCI);
  - The space will be metered, in the order listed, to determine the following:
    1. Oxygen content:  $\geq 19.5\%$  and  $\leq 23.5\%$
    2. Lower Explosive Limit:  $\leq 10\%$
    3. All chemical exposures less than the OSHA PEL and/or other exposure guidelines used by our facility; and
    4. For vertical entries, the retrieval system will be set-up at the entry point.

### Permit Completion

- The permit will be completed by the entry supervisor (See Appendix B).
- All information requested on the permit will be completed by the entry supervisor or NA (not applicable) will be written in.
- The time of permit issuance will always be written in. In no case will a permit remain valid for more than 8 hours. If the job runs past 8 hours, a new permit will be issued.
- Expired permits will be returned to the program administrator.

### Personnel Preparation

- An entrant(s) and attendant(s) will be assigned. All personnel involved with the entry and their representative can observe all aspects of the preparation.
- The Rescue Service will be notified that an entry will be taking place.
- Proper personal protective equipment will be selected and obtained for the entrant. The rescue service will also have access to an adequate supply of the required PPE for a rescue team and a stand-by team.
- Communication methods will be selected based on the size, location and characteristics of the space.
- The entry supervisor will brief the entrant(s) and attendant(s) on all aspects of the job.



# PERMIT REQUIRED CONFINED SPACE

- At any time, the entry supervisor, the entrant and/or the attendant can cancel the permit and cause the entry to be either postponed or stopped due to a safety concern.

## Entry

- All required equipment for entry including: communication, lighting, access, safety and rescue as well as the tools needed to accomplish the job will be available at the entrance.
- Continuous space atmosphere monitoring will be established either by the attendant or by the entrant.
- The attendant will stay in the immediate area of the entrance to the space and will stay in contact with the entrant.
- The entry supervisor will formally approve the entry to begin. At any time during the job the entry supervisor, entrant or the attendant can cancel the permit and cause the entry to be either postponed or stopped due to safety concerns.
- The attendant will document meter readings at intervals decided upon by the entry supervisor, but not longer than one hour. When testing for atmospheric hazards, test first for oxygen, then for combustible gases and vapors, and then for toxic gases and vapors.
- The attendant will immediately communicate any exterior condition to the entrant that could affect her/his safety (e.g. fire alarm, severe weather, etc.).

## Entry Completion

- The entry permit will be closed out by listing the time of space exit and any other pertinent information.
- The Rescue Service will be notified that the entry is complete.
- The entry closure will be replaced.
- Blanked and capped piping, tubing, ducts etc. will be re-attached.
- Disconnected hydraulic, mechanical and/or electrical equipment will be reattached.
- Lockout/tagouts will be released.
- Operating personnel for the space will be notified that it can be returned to production (if applicable).
- All safety and entry equipment will be cleaned and returned to storage locations.
- The cancelled permit will be returned to the program administrator.

## Duties of Personnel

### Entry Supervisor

The entry supervisor will:

- Know and understand the hazards that may be faced during entry, including information on the signs or symptoms, and consequences of the exposure.
- Verify, by checking that: the appropriate notations have been made on the permit; all tests specified by the permit have been conducted; and all procedures and equipment specified by the permit are in place before endorsing the permit and allowing entry to begin.
- Terminate the entry and cancel the permit when reasons for entering the space have been completed or when an unacceptable condition within the space or outside the space is detected.
- Verify that rescue services are available and that the means of calling the rescue service is operable. The entry supervisor will ensure that the attendant knows the method for summoning help if rescue is required.
- Remove unauthorized individuals who enter or who attempt to enter the permit space during entry operations.
- Determine, whenever responsibility for a permit space entry operation is transferred and at intervals dictated by the hazards and operations performed within the space, that entry operations remain consistent with terms of the entry permit and that acceptable entry conditions are maintained.



# PERMIT REQUIRED CONFINED SPACE

## Entrant

All entrants will know the following:

- Hazards that may be faced during entry, including information on the mode, signs, or symptoms, and consequences of the exposure.
- Proper use of equipment as required above.
- Means and methods of communication so the attendant can properly monitor work of entrants and so the attendant can provide warning for evacuation.
- To alert the attendant whenever the entrant recognizes warning signs or symptoms of exposure to a dangerous situation, or the entrant detects a condition that would warrant immediate evacuation.
- To exit from the permit space as quickly as possible whenever:
- An order to evacuate is given by the attendant or the entry supervisor;
- The entrant recognizes any warning sign or symptom of exposure to a dangerous situation;
- The entrant detects a prohibited condition; or
- An evacuation alarm is activated.

## Attendant

All attendants will:

- Know the hazards that may be faced during entry or while in the space, including information on the mode, signs or symptoms, and consequences of the exposure to suspected hazards.
- Be aware of possible behavioral effects of hazard exposure in authorized entrants.
- Continuously maintain an accurate count of authorized entrants in the permit space and ensure that the means used to identify authorized entrants is precise at all times.
- Remain outside the permit space during entry operations until relieved by another authorized attendant(s). Note: When the employer's permit entry program allows attendant entry for rescue, attendants may enter a permit space to attempt a rescue if they have been trained and equipped for rescue operations.
- Communicate with authorized entrants as necessary to monitor entrant status and to alert entrants of the need to evacuate the space when conditions warrant an immediate evacuation.
- Monitor activities inside and outside the space to determine if it is safe for entrants to remain in the space and orders the authorized entrants to evacuate the permit space immediately under any of the following conditions:
  - If the attendant detects a hazardous condition;
  - If the attendant detects a change in the behavior of any authorized entrant which would suggest an exposure to a hazard;
  - If the attendant detects a situation outside the space that could endanger the authorized entrants; or
  - If the attendant cannot effectively and safely perform all the duties required as outlined in this policy;
  - Summon rescue and other emergency services as the attendant determines that authorized entrants may need assistance to escape from permit space hazards.
- Do the following when unauthorized person(s) approach or enter a permit space while entry is underway:
  - Warn the unauthorized person(s) that they must stay away from the permit space;
  - Advise the unauthorized persons they must exit immediately if they have entered the permit space; or
  - Inform the authorized entrants and the entry supervisor, if unauthorized person have entered the permit space.
- Perform non-entry rescue (rescue attempts that do not cause the attendant to break the plane of the entry to the space) when it is determined a rescue of entrants is required.
- Perform no duties that might interfere with the attendant's primary duty to monitor and protect the authorized entrants.



# PERMIT REQUIRED CONFINED SPACE

## Rescue Service

Our facility has made arrangements with: (Emergency Service for Permit Required Confined Space Entry) \_\_\_\_\_ to provide entry rescue service.

We will meet with the rescue service and review the following:

- Our list of Permit Required Confined Spaces
- The hazards of the spaces
- Procedures for entry
- Equipment available on site
- Our training program

## Contractors

Any contractor who will be engaged in a permit required confined space entry must, at a minimum, follow this procedure. Whenever a contractor will be involved in a permit required confined space entry, a written plan for the entry will be submitted to the program administrator prior to the work being scheduled. The program administrator, or a designated employee who has been trained as an entry supervisor, will approve the contractor written plans.

## Training

Training will be provided for all personnel who are attendants, entrants or entry supervisors as follows:

- Before the employee is assigned duties relating to permit required confined space entry;
- Before the employee's assigned duties change;
- Whenever there is a change in operations that presents a hazard that the employee has not been trained in previously; or
- Whenever there is an indication that the procedure is not being followed safely and/or when there are indications that employee practices or knowledge do not meet the requirements.

All training will be certified in writing with the employee's name, the signature or initials of the trainer, and the date of training in addition to an outline of material presented. The certification shall be available for inspection by employees and their authorized representatives.

Revision History Record:

Revision Number	Section	Revised By	Description
0	NA	NA	Original document.



# **PERMIT REQUIRED CONFINED SPACE**

## **Appendix A**

### **PERMIT REQUIRED CONFINED SPACE INVENTORY**



# PERMIT REQUIRED CONFINED SPACE

## Permit Required Confined Space Inventory

Space

Location

Hazard



## **Appendix B**

### **ENTRY PERMIT**



# PERMIT REQUIRED CONFINED SPACE

## Confined Space Entry Permit

Date and Time Issued: \_\_\_\_\_ Date and Time Expires: \_\_\_\_\_

Job site/Space I.D.: \_\_\_\_\_ Job Supervisor: \_\_\_\_\_

Equipment to be worked on: \_\_\_\_\_ Work to be performed: \_\_\_\_\_

Attendant personnel: \_\_\_\_\_

1. Atmospheric Checks:      Time \_\_\_\_\_  
Oxygen \_\_\_\_\_ % ( $\leq 23.5\%$  and  $\geq 19.5\%$ )  
Explosive \_\_\_\_\_ % L.F.L. ( $\leq 10\%$ )  
Toxic \_\_\_\_\_ PPM (less than PEL)

2. Tester's signature: \_\_\_\_\_

3. Space preparation (blanking lockout, etc.)	<u>Hazard</u>	<u>Preparation/Isolation</u>
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

4. Ventilation:      N/A   Yes   No  
Mechanical      ( )   ( )   ( )  
Natural Ventilation only      ( )   ( )   ( )

5. Atmospheric check **after** isolation and ventilation:

Time: \_\_\_\_\_  
Oxygen: \_\_\_\_\_ ( $\leq 23.5\%$  and  $\geq 19.5\%$ )  
Explosive: \_\_\_\_\_ L.F.L. ( $\leq 10\%$ )  
Toxic: \_\_\_\_\_ PPM      Allowable PEL: \_\_\_\_\_  
Time \_\_\_\_\_      Testers signature: \_\_\_\_\_

6. Communication procedures: \_\_\_\_\_

7. Rescue team contact procedure: \_\_\_\_\_

8. Rescue service notified, rescue procedure reviewed: \_\_\_\_\_



## PERMIT REQUIRED CONFINED SPACE

9. Entrant, attendant, and supervisor:	Yes	No
Trained	( )	( )

10. Equipment:	N/A	Yes	No
Direct reading, calibrated meter	( )	( )	( )
Ventilation equipment	( )	( )	( )
Safety harnesses and lifelines for entry personnel	( )	( )	( )
Retrieval device	( )	( )	( )
Communications	( )	( )	( )
Access equipment	( )	( )	( )
Protective clothing	( )	( )	( )
All electric equipment listed for area classification	( )	( )	( )

## 11. Periodic atmospheric tests:

Oxygen	____%	Time	____	Oxygen	____%	Time	____
Oxygen	____%	Time	____	Oxygen	____%	Time	____
Explosive	____%	Time	____	Explosive	____%	Time	____
Explosive	____%	Time	____	Explosive	____%	Time	____
Toxic	____%	Time	____	Toxic	____%	Time	____
Toxic	____%	Time	____	Toxic	____%	Time	____

We have reviewed the work authorized by this permit and the information contained here-in. Written instructions and safety procedures have been received and are understood. Entry cannot be approved if any items are marked in the "No" column. This permit is not valid unless all appropriate items are completed.

Permit prepared by: (Supervisor)

All entry procedures have been followed:

Entry Supervisor: \_\_\_\_\_

Entrant: \_\_\_\_\_

Attendant: \_\_\_\_\_

**THIS PERMIT CAN BE CANCELLED AT ANY TIME BY THE ENTRY SUPERVISOR,  
THE ENTRANT OR THE ATTENDANT IN THE EVENT OF A SAFETY CONCERN.**

This permit is to be kept at the job site. Return the expired permit to the program administrator at the conclusion of the job



# HAND & PORTABLE POWER TOOLS

## COMPANY NAME

## HAND & PORTABLE POWER TOOL PROGRAM

Effective Date: [Effective\_Date]

Revision #:

### Reference Standard

Occupational Safety and Health Administration, Subpart P Hand and Portable Powered Tools including:

- 29 CFR 1910.242, Hand and Portable Powered Tools and Equipment, General;
- 29 CFR 1910.243, Guarding of Portable Powered Tools; and
- 29 CFR 1910.244, Other Portable Tools and Equipment.

### Purpose

This procedure establishes minimum safety procedures for the selection, inspection and use of hand and portable power tools. This procedure applies to company owned and issued tools as well as employee owned tools.

### Scope

This procedure applies to all company employees, contractors, vendors, and other individuals performing work on company property or visiting a work site.

### Responsibilities

- Management is responsible for the development and periodic review of this program. Management is also responsible for appropriate employee training.
- Management and supervisors are responsible for enforcement of this program.
- Employees, Contractors and vendors must comply with all procedures outlined in this policy.

### Definitions

**Constant Pressure Switch:** a mechanism that shuts off the power when the pressure is released.

**GFCI (Ground Fault Circuit Interrupter):** a fast-acting circuit breaker designed to shut off electric power and prevent a grounded current from establish an alternative path through an individual. The breaker compares the amount current going and coming from the equipment and circuit conductors. If the amounts going and coming are different, the breaker interrupts the current.

**Lock mechanism:** a mechanism that bypasses constant pressure controls enabling a tool to continue operation even when pressure is released.

**Operator:** person operating a power tool or an individual assisting a person operating a power tool.

**Power Tools:** tools with electric, explosive, hydraulic or pneumatic power sources.

**PPE:** personal protective equipment as defined by 29 CFR 1910 Subpart I, including clothing, helmets, goggles, and other garments or equipment designed to protect the body from injury, impact, and other job-related hazards.

### Procedure

#### Prevention and Safety

- Operators must be trained and authorized to operate power tools;
- Operators must refrain from using power tools in an explosive or flammable environment;
- Operators must inspect and test all tools and their parts (including guards and safety mechanisms) before operation;
- Operators must avoid using equipment that has been damaged or modified in transit, storage, or otherwise;
- Operators must be satisfied, after inspection of the tool, that the tool is clean, that all moving parts will operate as designed, and that the tool is free of obstructions;



# HAND & PORTABLE POWER TOOLS

- Operators must inspect the work area for hazards before igniting or operating a power tool;
- Operators must take precautions to protect others from power tool usage hazards such as:
  - Using Caution Tape, Traffic Cones or other barricades to isolate the area;
  - Posting warning signs;
  - Erecting temporary barriers;
  - Holding pre-job conferences with personnel in the work area; and
  - Scheduling work for hours when others are not present in the work area.
- Operators must only use approved tools. To be OSHA approved, power tools must;
  - Be equipped with ignition and activation mechanisms that require manual and intentional operation;
  - Be equipped with a dual ignition mechanism, if applicable (consult OSHA regulations for details and exceptions);
  - Be equipped with guards to protect the operator against accidental contact with the tool;
  - Be equipped with guards to prevent ejection of the tool, of its parts or of debris during operation;
  - Be equipped with guards that automatically and instantly cover the tool when the tool is not in use, if applicable (consult OSHA regulations for detailed guard information on specific tools);
  - Be equipped with guards that must be set in place before operators can activate the tool, if applicable (consult OSHA regulations for detailed guard information on specific tools);
  - Be equipped with a constant pressure switch or a shutoff mechanism that deactivates the tool or automatically and instantly sets guards to cover the tool when the tool seems to not be performing its intended work;
  - Be designed so the location of the ignition and operation controls minimizes the possibility of accidental operation;
  - Be designed to allow for an easy examination of the tool to determine the presence of foreign objects (or matter) on the tool;
  - Be designed to allow for an easy examination of the tool and to determine the existence of damaged or otherwise altered tool components;
  - Be designed to display prominently and permanently any warnings or instructions operators must follow to ensure the safe ignition, operation, and deactivation of the tool; and
  - Be designed, if applicable, to allow operators to select the appropriate power level to accomplish the desired work without applying excessive force.

For convenience, some tools may operate with a lock mechanism to prevent an automatic shutoff, provided that such mechanism can be deactivated by a single motion of the finger(s) that turned it on. Consult OSHA regulations for detailed information on allowed lock mechanisms.

## Training

- Operators must receive training before being assigned to jobs requiring the use of power tools;
- Operators must receive training when new or different tools are introduced into the facility;
- Operators must receive training when procedures for operating existing tools change;
- Operators and repair personnel must have access to instruction manuals; and
- Power tool owners must maintain updated instruction manuals for power tools.

## Power Tool Operation

- All operators and assistants must wear PPE while using tools as required by working conditions.



# HAND & PORTABLE POWER TOOLS

- Operators must not load power tools far in advance. Operators should load power tools immediately before use.
- Operators must select the appropriate power level for the desired work. Operators must not use excessive force on very hard or brittle materials.
- Operators must install on the tools the guards and safety equipment recommended by the manufacturer.
- Operators must consider body placement when handling a tool. Operators must:
  - Never use hands or other body parts to support a work piece;
  - Keep body parts out of the path of the power tool and the debris created while operating the tool; or
  - Avoid using force that may cause them to fall or lose balance while operating the tool.
- When a tool becomes defective during use, the operator must cease to use it immediately, must follow the manufacturer's instructions to unload the tool, and must discontinue its use until the tool is satisfactorily repaired.

## Specific Tool Requirements

- When using electric tools, operators must:
  - Keep cords out of aisles and traffic areas where they could be damaged by traffic and/or cause pedestrians to trip;
  - Keep cords away from heat sources and equipment that could cause mechanical damage;
  - Make sure the tool is plugged into a GFCI receptacle or extension cord equipped with a GFCI;
  - Make sure that their hands, the tools, and all cords are dry and kept away from wet environments; and
  - Make sure that cords are rated for the same amperage as the tool.
- When using pneumatic tools, operators must:
  - Be sure to use compressed air to power the tools instead of oxygen, nitrogen or other gasses;
  - Be sure that compressed air fittings are different and easily distinguished from other gas fittings available in the facility to prevent mistaking another gas for compressed air; and
  - Never direct compressed air to other chemicals (compressed air can act as an oxidizer and increase the burning rate of combustible and flammable liquids).
- When using internal combustion tools, operators must:
  - Operate the tool in areas with adequate ventilation;
  - Shut off and allow motors or engines to cool down prior to refueling; and
  - Store fuel in approved containers in a secure location, away from ignition sources or hazards that may trigger spills.
- When using a tools with a chuck, operators must:
  - Make sure the chuck is tight prior to use; and
  - Remove the chuck key from the chuck prior to use.
- When using a jack, operators must follow the specific instructions set out by OSHA regarding the usage of jacks. These instructions address the rating of the tool, the load worked on, and the prevention of slippage. Please consult OSHA regulations for detailed information. (see 29 CFR 1910.244(a))

## Maintenance, Storage, and Repairs

- Operators must inspect repaired tools at regular intervals.
- Operators must store power tools in a location that protects the tools and their components from damage and other hazards.
- Operators must store power tools in a location that prevents theft or unauthorized personnel from gaining easy access to the tools.
- Operators may use compressed air for cleaning only if reduced to less than 30 psi and only while using effective guards and PPE.



# HAND & PORTABLE POWER TOOLS

- Authorized personnel must repair tools according to the manufacturer's specifications.

## Prohibited Practices

- Never leave a loaded tool unattended, particularly in areas where it may be stolen or become accessible to unauthorized personnel.
- Never point or aim a tool toward another person.
- Never remove company tools from a worksite or from storage without proper authorization.
- Never modify or alter company tools without proper authorization.

## Revision History Record:

Revision Number	Section	Revised By	Description
0	NA	NA	Original document.



# LOCKOUT/TAGOUT SAFETY

## COMPANY NAME

## LOCKOUT/TAGOUT SAFETY PROGRAM

Effective Date: [Effective\_Date]

Revision #:

Approved by:

Date:

## Reference Standard

Occupational Safety and Health Administration: The Control of Hazardous Energy (Lockout/Tagout) Subpart J, 29 CFR 1910.147

## Purpose

This procedure establishes minimum standards for Lockout/Tagout in our facility. The goal is the prevention of accidents caused by the accidental energization of equipment or release of stored energy.

## Scope

This procedure applies to all of our company employees, all contractors and vendors performing work on company property, and all other individuals who are visiting or have business with our company. This procedure covers the servicing and maintenance of machines and equipment in which the energization or start-up of the machines or equipment, or release of stored energy, could harm employees. This standard establishes minimum performance requirements for the control of such hazardous energy.

## Responsibilities

- Management is responsible for developing and periodically reviewing this program;
- Management is also responsible for appropriate employee training;
- Management and supervisors are responsible for enforcement of this program;
- Employees shall comply with all procedures outlined in this policy; and
- Contractors and vendors shall comply with all procedures outlined in this policy.

## Definitions

**Affected Employee:** An employee whose job requires him or her to:

- operate or use a machine or equipment on which servicing or maintenance is being performed under lockout or tagout; or
- work in an area in which such servicing or maintenance is being performed.

**Authorized Employee:** A person who locks out or tags out machines or equipment in order to perform servicing or maintenance. An affected employee becomes an authorized employee when his or her duties include servicing or performing maintenance covered under this section.

**Contractor:** A non-company employee being paid to perform work in our facility.

**Energy Sources:** Mechanical, electrical, hydraulic, pneumatic, chemical, thermal, stored or other energy source.

**Lockout:** Placing a device on an energy isolating device, in accordance with an established procedure, ensuring that the energy isolating device and the equipment being controlled cannot be operated until the lockout device is removed.

**Stored Energy Source:** A hidden energy source that is capable of releasing energy suddenly. These energy sources can cause injury or death. Examples include: springs, capacitors, heavy objects held against gravity, and hydraulic or pneumatic cylinders.

**Tagout:** Placing a device on an energy isolating device, in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

**Tagout Device:** A prominent warning device, such as a tag and a means of attachment, which can be securely fastened to an energy isolating device in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.



# LOCKOUT/TAGOUT SAFETY

## Program Application

Our facility will always use Locks to achieve control of hazardous energy rather than tags except when an energy control device is not capable of being locked out.

## Procedure

### Energy Control Procedures

Our facility will maintain written energy control procedures for all equipment, unless the following elements exist:

- The machine or equipment has no potential for stored or residual energy or reaccumulation of stored energy after shut down which could endanger employees;
- The machine or equipment has a single energy source which can be readily identified and isolated;
- The isolation and locking out of that energy source will completely de-energize and deactivate the machine or equipment;
- The machine or equipment is isolated from that energy source and locked out during servicing or maintenance;
- A single lockout device will achieve a locked-out condition;
- The lockout device is under the exclusive control of the authorized employee performing the servicing or maintenance;
- The servicing or maintenance does not create hazards for other employees; and
- The employer, in utilizing this exception, has had no accidents involving the unexpected activation or re-energization of the machine or equipment during servicing or maintenance.

Written energy control procedures are available from the program administrator. These procedures are always available to authorized employees. (See Appendix A for the Machine Specific Energy Control Procedure)

### Energy Control Hardware

- **Locks** - Each authorized employee will be assigned a sufficient number of locks to lock out the maximum number of energy control devices found on any equipment that he or she services or maintains. All locks used within our facility will have similar design and appearance. Each set of locks assigned to an authorized employee may be keyed alike, but only one key will be assigned for each lock;
- **Tags** - Each authorized employee will be assigned a tag for each lock. Additional tags can be obtained from the program administrator. Tags will always be used in conjunction with locks. All tags used in our facility will be the same; and
- **Other Equipment** - Hasps, valve and plug covers, chains, cables and other equipment to facilitate lockout is available in the maintenance department.

### Preparation for Lockout

Prior to lockout, the authorized employee performing the task will do the following:

1. Review the Energy Control Procedure for the piece of equipment s/he will be working on. Be sure that all energy sources have been identified;
2. Procure all hardware needed to lockout all energy control devices;
3. Complete information on tags; and
4. Notify the “owner” of the equipment to be locked out (e.g. departmental supervisor, lead person, operator, etc.).



# LOCKOUT/TAGOUT SAFETY

## Lockout Sequence

1. Shut down all energy sources using normal stopping/shut down devices (stop buttons, switches, valves, etc.);
2. Isolate energy sources by applying a lock and tag to each control device. *Note: devices not capable of being locked will have a tag applied to the device or as close as possible to it;*
3. Stored energy must be dissipated or restrained;
4. Verify the energy isolation of the equipment by attempting to operate the machine using the normal operating controls *Note: check to be sure that it would be safe if restart actually happened.* Return the operating controls to off or safe; and
5. Barricade the work area as necessary and perform the work.

## Restoration of Energy

1. Inspect the equipment to be sure that all tools and parts have been removed as necessary;
2. Replace guards and restore machine controls;
3. Notify the equipment “owner(s)” and other employees in the area;
4. Remove locks and tags;
5. Test operation of the equipment; and
6. Release equipment back to the “owner(s).”

## Multiple Employee Lockout

When more than one employee is assigned to work on the same piece of equipment, each employee will apply her/his lock and tag to each energy control device. In cases where an energy control device cannot accept multiple locks a hasp or lock box may be used. In the case of a lock box, each energy control device will be secured with one lock but the key will be locked in a box that is capable of accepting the lock of every employee assigned to perform the work. The key cannot be obtained until all assigned employees have removed their locks.

## Shift Change or Employee Reassignment

Whenever a job extends from one shift to the next, a change-over period will be established where the two or more employee's may change locks. The off-going employee will remove their locks and the on-coming personnel will apply theirs.

Prior to doing any work, the on-coming employee(s) will verify that all energy sources are safe and locked out. If an authorized employee is not available at shift change, a supervisor may serve as the on-coming shift employee.

## Stored Energy

Following the application of lockout or tagout devices to energy isolating devices, all potentially hazardous stored or residual energy shall be relieved, disconnected, restrained, and otherwise rendered safe. If there is a possibility of re-accumulation of stored energy to a hazardous level, verification of isolation shall be continued until the servicing or maintenance is completed, or until the possibility of such accumulation no longer exists.

## Testing or Positioning of Machines

In situations in which lockout or tagout devices must be temporarily removed from the energy isolating device and the machine or equipment energized to test or position the machine, equipment or component thereof, the following sequence of actions shall be followed:

- Clear the machine or equipment of tools and material;
- Remove employees from the machine or equipment area;
- Remove the lockout or tagout devices;
- Energize and proceed with testing or positioning; and
- De-energize all systems and reapply energy control measures.



# LOCKOUT/TAGOUT SAFETY

## Emergency Lock Removal

Whenever Management determines that a lock must be removed the lock owner must be notified. If the lock owner is not in the plant, the following steps must be taken:

1. Call the lock owner at home. If an answering machine is in use, leave an appropriate message;
2. The supervisor, or another member of Management, will meet the employee at the entrance during the next scheduled shift and advise of the lock removal; and
3. The cut off lock will be placed on the owners work bench or tool box along with a note that explains where the lock(s) was removed.

## Contractors

Contractors will be required to submit a copy of their Company's Lockout plan to our program administrator. Our facility will also submit a copy of our Lockout program to the contractor. Both the contractor and our program administrator will make their respective employees aware of significant differences in the programs.

We reserve the right to require that contractors use our facility lockout procedures if they are more protective than the contractor's program.

## Training

### Authorized Employees

Authorized employees will be trained, at the time of hire or at reassignment into an authorized employee position, in the following:

- Recognition of hazardous energy sources;
- Type and magnitude of energy in the facility; and
- Methods and hardware available for energy isolation and control.

### Affected Employees

Affected employees and employees who may work in areas where equipment is locked out will be trained to recognize lockout locks and tags at the time of hire or assignment requiring this training. Training will include the purpose and use of the energy control procedure.

Affected employees will also be instructed that under no circumstances is anyone to remove a lock and/or a tag other than the person who applied it.

### Authorized and Affected Employees

Retraining will be provided as follows:

- When the periodic inspection reveals a need for retraining;
- When a new hazard is identified;
- When the procedure changes; or
- When the program administrator determines that there is a need for additional training.

### Other Employees

All other employees shall be trained on whose work operations are or may be in an area where energy control procedures may be utilized, shall be instructed about the procedure, and about the prohibition relating to attempts to restart or reenergize machines or equipment which are locked out or tagged out.

**When tagout systems are used**, employees will also be trained in the following limitations of tags:

- Tags are essentially warning devices affixed to energy isolating devices, and do not provide the physical restraint on those devices that is provided by a lock;
- When a tag is attached to an energy isolating means, it is not to be removed without authorization of the authorized person responsible for it, and it is never to be bypassed, ignored, or otherwise defeated;



# LOCKOUT/TAGOUT SAFETY

- Tags must be legible and understandable by all authorized employees, affected employees, and all other employees whose work operations are or may be in the area, in order to be effective;
- Tags and their means of attachment must be made of materials which will withstand the environmental conditions encountered in the workplace;
- Tags may evoke a false sense of security, and their meaning needs to be understood as part of the overall energy control program; and
- Tags must be securely attached to energy isolating devices so that they cannot be inadvertently or accidentally detached during use.

## Periodic Inspection

Annually, the program administrator will assign an appropriate authorized employee, other than the one utilizing the procedure under review, to review the following:

- All Energy Control Procedures for accuracy and need for updating;
- Each authorized employee and her/his responsibilities and understanding of the Lockout program (this may be accomplished through group meetings); and
- If any tagout only is utilized in our facility the inspector will also review the employee. responsibilities with all affected employees

The periodic inspection will certify the following:

- The identity of the equipment being utilized;
- Whenever there is a change in their job assignments;
- The inspection date; and
- Employees included in the inspection.



# LOCKOUT/TAGOUT SAFETY

## Revision History Record:

Revision Number	Section	Revised By	Description
0	NA	NA	Original document.



## **Appendix A**

### Energy Control Procedure



# LOCKOUT/TAGOUT SAFETY

## Lockout/Tagout Energy Control Procedure

Equipment or Process: \_\_\_\_\_

Location of Equipment: \_\_\_\_\_

Date prepared \_\_\_\_\_ Prepared by \_\_\_\_\_

### Energy Sources

Type of Energy	Isolation Location	Type of Lockout Device
Electrical	1. 2.	1. 2.
Stored		
Mechanical		
Pneumatic		
Hydraulic		
Thermal		
Chemical		
Special Hazards	Procedure for Control of Special Hazard	
Special Procedures		
Stored Energy Release Procedure		
Notes		
<b>Isolation Location</b> shall positively identify the exact breaker, valve, switch or other disconnect or blocking device to be locked and tagged to isolate the source of energy from the work area.		
<b>Type of Lockout</b> shall specifically name the exact type of locking device needed.		
<b>Stored Energy:</b> Following the application of the lockout or tagout devices to the energy isolating devices, all potential or residual energy will be relieved, disconnected, restrained, and otherwise rendered safe.		
<b>Multiple Sources:</b> use numbers to add multiple sources as listed under Electrical		

### Quiz Answers

1.) A    2.) B    3.) A    4.) A    5.) A    6.) B    7.) B    8.) A    9.) A    10.) A



## LOCKOUT/TAGOUT QUIZ

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

**Place a check mark on the line with the best answer for each of these 10 questions:**

1. Lockout/tagout is a procedure that keeps energy controls in an off or safe position during maintenance and service assignments.  
a. ☐ True  
b. ☐ False
2. An employee who is allowed to lock and tag equipment is called an:  
a. ☐ Outstanding employee  
b. ☐ Authorized employee
3. Some energy sources are:  
a. ☐ electricity, hydraulic, pneumatic  
b. ☐ gear, belt, wire
4. An energy source that causes many accidents because it is not obvious is:  
a. ☐ Stored energy  
b. ☐ High energy
5. We have Energy Control Procedures for machines with more than one energy source:  
a. ☐ True  
b. ☐ False
6. In our facility we:  
a. ☐ Only use a tag  
b. ☐ Always use a lock and a tag (except when a control does not accept a lock)
7. The Energy Control Procedure should always be checked before lockout/tagout:  
a. ☐ True  
b. ☐ False
8. After initial lockout/tagout of a machine the following should be done:  
a. ☐ Talk to your supervisor  
b. ☐ Try to operate the machine to verify that all power is off or safe
9. When multiple employees are working on a project each must apply their own lock:  
a. ☐ True  
b. ☐ False
10. We must understand the lockout/tagout procedures used by:  
a. ☐ Contractors  
b. ☐ The neighboring facility







[illegible]



## LOTO - List of Authorized Employees

[illegible]



**SECTION C**

**SAMPLE SAFETY  
POLICIES**



# SAFETY POLICY

- 30Á K'ku'yj g'r qrlē{ "qh'yj ku'eqo r cp{ "vq'r tqxkf g'c'uchg'y qtnlr mēg'hqt'cm'go r mq{ ggu0'
- 40Á Vj ku'r qrlē{ 'lpenwf gu"qdugtxcvkqpu"qh'eqputwēvkqp"uchgv{ 'tgi wrcvkqpu."y j lej "ctg'ugv'hqtvj 'lp"Hgf gtcn"  
Ucvg."cpf "Nqecn'ucpf ctf u0'
- 50Á Uchgv{ 'uj cm'pqv'dg'ucetkhegf "hqt"gzr gf kpe{ "wpf gt"cp{ 'ektewo ucpegu0'
- 60Á Uchgv{ 'o wuv'dg'eqpukf gtgf "cp'lpvgi tcn'r ctv'qh's wcnw{ 'eqpvtqn"equv'tgf wēvkqp."cpf "lqd"ghhekgpe{ 0'
- 70Á Vj g'j gcmj "cpf 'i gpgtcn'y gm'dgkpi "qh'gcej "go r mq{ gg'ku'qh'r tko ct{ 'ko r qtvcepg"vq'yj g"qdlgevkxgu"qh'yj g"  
eqo r cp{ "uchgv{ 'r ncp0'
- 80Á O cpci go gpv'y knif guki pcvg"cp'lpf kxkf wcn'vq'dg'tgur qpukdrg'hqt'uchgv{ 'vj tqwi j qwv'yj g'eqo r cp{ 0'
- 90Á Vj g'uchgv{ 'r gtuqp'y kn'bo cmg'lpur gevqpu"qh'lqd'ukgu."cu'y gm'cu'uj qr "qr gtcvkqpu."vq'wpeqxtg'wpuchg"  
eqpf kkpup"cpf "wpuchg"cew'dghqtg'yj g{ "ecp"ecwug"cp"ceekf gpv0'
- : 0Á Uchgv{ 'vtckpki "qh'eqo r cp{ "go r mq{ ggu'y kn'dg"cp"qpi qkpi "r tqi tco "vq'r tqo qvg"c'uchg'y qtnl'  
r mēg'hqt'cm0'
- ; 0Á Go r mq{ ggu"eqpf wēvkpi "yj go ugrxgu'lp"cp'wpuchg"o cppgt"ctg'uwdlgev"vq'eqo r cp{ )u'f luekr rkpct{ "  
r tqi tco 0'



# SAMPLE COMPANY LETTER

(On Company Letterhead)

Vq<"CNN'GO RNQ[ GGU"

"

"

Cu'r tgukf gpv'qh \_\_\_\_\_ (Co. Name) k'ku'o { 'lpvgpv'q'r tqxkf g'c'uchg'y qtnlr nceg"  
hqt'cm'go r m{ ggu0' \_\_\_\_\_ (Co. Name) ku'eqo o kwgf "q'r gthqto kpi "cm'y qtnlkp"  
c'uchg'cpf "r tqhguukqpcrlo cppgt0Y g'dgnkgxg'yj ku'q'dg'lp'yj g'dguv'lpvgt guv'qh'qwt"go r m{ ggu."cu'y gm'cu'yj g"  
eqo r cp{ "cu'c'yj qng0'

"

Vq"gpwtg'yj cv'y g'o clpxclp"c'uchg'y qtnlr nceg."o cpci go gpv'yj tqwi j "ko r ngo gpvcvqp"qh'yj g'eqo r cp{ "uchgv"  
r ncp'y kn'y qtnl'qy ctf "uchgv"lp"gxgt { "cur gev'qh'qwt"fcnf "qr gtcvqp0"Y g'cum'yj cv'cm'go r m{ ggu"hco kktk g"  
yj go ugrkgu"y kj "yj g'eqo r cp{ "uchgv"r ncp"cpf "qdugt xg"cm'uchgv "tgi wrcvqp0"Vj ku'eqo dlpf "ghqtv'y kni"  
eqpvtkdwg'q"c'uchg'y qtnlr nceg'hqt'cn0'

"

Vj g'uweeguu'qh \_\_\_\_\_ (Co. Name) uchgv' r tqi tco "f gr gpf u'qp'yj g'ghqtw'cpf "  
cevcqp"qh'lpf kxkf wcn'go r m{ ggu0"Uchgv"y kni'P QV"dg"ucetkhegf "hqt"gzr gf kqpe { "wpf gt"cp{ "ektewo ucpegu0"  
Y g'gzr gev'cm'qwt"go r m{ ggu'v'q'yj kni'cpf "Y QTM'UCHGN[ #"

"

Ukpegtgn{."

"

"

\_\_\_\_\_  
(Co. Name)

Lqg'F qg'"

Rtgukf gpv'

"



# MANAGEMENT RESPONSIBILITIES

30' Hco kktk g'go r m{ ggu'y kj 'y g'eqo r cp{ 'uchgv 'r tqi tco 0'Kpqr qtcvg'r tqi tco 'kpw'pgy " go r m{ gg'qtkpvcvqp0'

40Á J qrf 'tgi wct 'uchgv 'o ggkpi u.'kpenf kpi 'vqndqz'o ggkpi u.'hqt'cm'tqqhpi 'go r m{ ggu0Mggr " y tkwgp'o kpwgu'cpf 'cwgp cpeg'tgeqtf u'qh'cm'o ggkpi u0'

50Á Cdkf g'd{ 'cm'cr r ncedrg'iqecn'ucvg.'cpf 'hgf gten'uchgv 'tgi wcvkpu0'

60Á Kpxguki cvg'cm'ceekf gpw0Tgxky 'uchgv 'r tqegf wgu'y j gtg'cp'kpxguki cvkqp'j cu'kpf kcvgf 'y cv' ewtgpvr tqegf wgu'ctg'kpcf gs wcvg0'

70Á O clpvc'cm'tgeqtf u'tgs wktgf 'd{ 'QUI C \*g0 0'QUI C '422'hi u.'uchgv 'tclpki +0Gpuwtg'y cv'cm' go r m{ ggu'ctg'r tqr gtn 'tclpgf 'k'y g'QUI C 'J c| ctf 'Eqo o wplecvkqp'Ucpf ctf 0'Dg'uwg'y cv'

c+Á O UF Uu'ctg'ewtgpv'cpf 'cxckrdrg'qp'ukg0'

d+Á C'y tkwgp'J c| ctf 'Eqo o wplecvkqp'Rtqi tco 'ku'f gxgnr gf 'cpf 'cxckrdrg'qp'ukg" kpenf kpi 'c'ku'qh'cm'j c| ctf qwu'ej go kcnu0'

e+Á O cvgtkcu'ctg'r tqr gtn 'rdgrgf 0'K gpvkh '( 'cr r tqr tkvg'j c| ctf 'y ctpkpi u0'

f+Á O wnk/go r m{ gt'y qtm'ukg'r tqxkukpu'ctg'k'r meg'kpenf kpi 'y g'necvkqp'qh'O UF Uu0'

Tghgt'v'QUI C 'Ucpf ctf '3; 4807; /J c| ctf 'Eqo o wplecvkqp0'

80Á O cng'cxckrdrg.'v'cm'go r m{ ggu.'r gtupcnr tqvexg'gs wkr o gpv'y cv'ku'tgs wktgf 'd{ 'y g" eqo r cp{ 'uchgv 'r tqi tco 'cpf lqt'd{ 'cp{ 'cr r ncedrg'rcy 0'Hwtpkuj . 'cv'eqo r cp{ 'equv.'lqd/tgrvgf " uchgv 'o cvgtkcu'cpf 'ktu'ckf "gs wkr o gpv0'

90Á Gpuwtg'eqo r ncepg'y kj 'y g'Hgf gten'O qvqt'Ecttktg'Uchgv 'Tgi wcvkpu'kpenf kpi 'iqecn' f kur qucn'tgs wktgo gpw0'

: 0Á O cng'uwg'cm'uwr gtlpvgpf gpv'cpf 'hqtgo gp'gphqteg'y g'uchgv 'twrgu'qp'c'f ckn 'dcuku'w'ukpi 'uko r ng" y tkwgp'tgr qtuo0' Cp{ 'go r m{ gg'f kutgi ctf kpi 'y gug'twrgu'o 'c{ 'dg'uwldge'v'q'f kuer ncpct{ 'cevkqp'kp" ceeqtf cpeg'y kj 'eqo r cp{ 'f kuer ncpct{ 'r ncp0'

; 0Á O cng'qpg'r gtup'tgur qpukdr'hqt' { qwt'uchgv 'r tqi tco 'cpf 'gpwtg'j g'j cu'y g'cwj qtkv 'v'q" r tqr gtn 'gphqteg'y g'r tqi tco 0'



# FOREMAN RESPONSIBILITIES

- 30      Cn'ceekf gpw'uj qwf 'dg'tgr qtvgf 'ko o gf kcygn{ 'q'vj g'uchgv{ 'q'hegt0"Kj cu'dgeqo g'eqo "o qp  
r tcevkleg"q'rj qvqi tcr j "uwej "ceekf gpw'qt'kpekf gpw0
- 40      Kpur gev'lqd'ukg'cv'ngcu'vy keg"f ckn{ 0
- 50      Tgr qt v'cpf "cng'eqt tgevkxg'cev kqp"wr qp"dglpi "pqv kkgf "qh'j c| ctf qwu'eqpf kkp0
- 60      Eqqt f kpcvkqp'y kj "eqptcevtu"qp"o wmk/go r mq{ gt'ukgu0
- 70      Tgur qpukdng'hqt"qtlgpvcvkqp"qh"go r mq{ ggu0

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*Signature*

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*Date*



# EMPLOYEE RESPONSIBILITIES

I qqf "uchgv" r tceveg"cpf"ceekf gpvr t xgpvkp"ku"j g'tgur qpukdkkx "qh'gxt{ "go r m{ ggOGcej "go r m{ gg"ku" t gur qpukdg"v"npqy "cpf" hqmy "j g'i gpgtcnr tqxkukpu"qh"j g'Ego r cp{ "Uchgv" Rqr{ O'

## ALL EMPLOYEES SHALL ABIDE BY THE FOLLOWING RULES:

30Á Tgr qt v'wpuchg"eqpf kkpup"v"q"qwt "hqtgo cpO'

40Á Tgr qt v'CNN"kp lwtkgu"KO O GF KC VGN[ "v"q"qwt "hqtgo cp"qt "ecm'qh hlegO'

50Á Y gct"j ctf"j cw'y j gp"y qtnkpi "dgruy "j g'tqqh"kp g."qt"cp{ "ctgc"y j gtg'hcnkpi "j c| ctf u'eqwf "qewtO'

60Á Wug"g{ g"cpf "hceg"r tqvgevkp"y j gtg"y gtg"ku" f cpi gt "htqo "h" kpi "qdlgeu"qt "r ctvkgu."uwej "cu"y j gp"tqqh" ewwgtu."r pgwo cke"i wpu."gveO"ctg"kp" wugO'

70Á F tguu"r tqr gtn{ "y gct"cr r tqr tkevg"y qtnlerqy gu."i m xgu"cpf "uj qgu"qt "dqquO" Nqqug"emqy kpi ."cpf" lgy grt{ "uj qwf "pqv'dg"y qtpO'

80Á P gxtg"qr gtcvg"cp{ "o cej kpg"wpnguu"cmi wctf u"cpf "uchgv" f gxlegu"ctg"kp"r meg"cpf "kp"r tqr gt"qr gtcvki "eqpf kkpO'

90Á Megr "cm'vqqu"kp"uchg"y qtnkpi "eqpf kkpO'P gxtg" wug" f ghgevkg"vqqu"qt "gs wkr o gpO'

: 0Á Rtqr gtn{ "ectg" hqt."cpf" dg"t gur qpukdg" hqt "cmi"r gtupcnr tqvgevkp"gs wkr o gpO'

; 0Á Ue{ "qw'htqo "wpf gt"qxgtj gcf "hpcf uO'

320Á F q"pqv"qr gtcvg"o cej kpgt{ "kh"q'w'ctg"pqv'tckpgf "v" f q"uqO'

330Á F q"pqv'hcexg"o cvgtkn"kp"ckungu."y cmy c{ u."uclty c{ u."tqcf u"qt"qy gt"r cvj u"qh'tcexgrO'

340Á "Rtceveg"i qqf "j qwugnggr kpi "cv'cm'ko guO'

350Á Tkf kpi "cp{ "o qxkpi "gs wkr o gpv'ku"r tqj kdkgf "gzegr v'qp"ugcu"r tqxkf gf O'

360Á Rrceg"rcf fgtu"qp" c"u wduvcpvkn'dcug"cpf "f q"pqv'wug"rcf fgtu"y kj "dtqngp."ur rkv"qt"o kuukpi "twpi u"qt"tckuO' Cmi"rcf fgtu"ctg"v"gzvgpf "cv'hcuv"5"hggy'cdqxs"y j g'ncpf kpi "r rchqto "cpf" dg'ugewtgn{ "hcuvpgf O'Rtqr gt" rcf fgt"r mego gpv'ku"qpg"s wctgt"vqcnj gli j v'gs wcu'dcug"rgpi yj "cy c{ "htqo "y g"dwkf kpi O'

370Á Cmi"rco o cdrg"rks wkf u"o wuv'dg"uqtgf "kp"uchgv" "eqpvckpgtO" Gpi kpgu"o wuv'dg"uj w'qlh"y j gp"tghwngkpi O'

380Á Uo qnkpi "ku"r tqj kdkgf "cp{/y j gtg"pgct"rco o cdrg"rks wkf uO'

390Á Ego r tguuf "i cu'e{ kpf gtu"r tqr cpg."cegv" ngpg."gveO"o wuv'dg"ugewtgf "kp"cp"wr tki j v'r qukkqpO' Y j gp"pqv'kp" wug."ecr u"o wuv'dg"ugewtgn{ "kp"r mego Eqpumw"y g"qy pgtu."hcecn"cpf "ucvg"uqtci g" cpf "tcur qtckqp"tgi wrcvqpO'

3: 0Á Y j gp"dwtpkpi "qt"y grf kpi "ku'dgkpi "f qpg."c"htg"gzvki wkuj gt"o wuv'dg"enqug"cvj cpf "cv'cm'ko guO'



# EMPLOYEE RESPONSIBILITIES

3; 0Á Hk g'gz vpi wuj gt 'uj qwf 'dg'lp'r rceg'cv'cm'ko gu0'

420Á Vj g'wug'qt'r quuguukqp"qh"qt'dgkpi "wpf gt 'y g'lp'hwgpeg"qh'creqj qn'qt'f twi u'y j kg'qp'yj g'lqd'qt" ftkkpi 'c'eqo r cp{ 'xgj keng'ku'r tqj kdkgf "cpf "uwdlgev'q'ko o gf kcv'f kuo kucri0'

430' Cmlr quvgf "uchgv' 'twngu'o wuv'dg'qdg{ gf 0'

440Á Ego r n{ 'cv'cm'ko gu'y kj "cm'hpqy p'hgf gten'ucvg'cpf "nqecnluchgv' 'rcy u."go r nq{ gt" tgi wcvkpu'cpf'r qnkeku0'

450Á J qtugr n{ 'ecwugu'ceekf gpw'cpf 'uj cm'pqv'dg'vqrgtcvgf #'

460Á Y gct'ugcv'dgmu'cv'cm'ko gu'lp'eqo r cp{ "qy pgf 'xgj keng0'

Dg'eqo r ngvnl 'hco kktct'y kj "ur gekle'vcunltgs wkt go gpw'qwwkpgf "gnugy j gtg'lp'yj g'o cpwcri0'

Xkqnvkpu'qh'cp{ "qh'yj gug'twngu'o c{ "dg'ecwug'hqt'ko o gf kcv'f kuelr nqct{ "cevkqp0'

Kj cxg'tgcf "cpf "wpf gtucpf "y g'twngu'ucvgf "cdqyg'cpf "ceegr v'y go "cu'c'eqpf kkkp"qh'eqpvkpwgf " go r nq{ o gpv0'

Kj cxg'dggp'i kxgp"e'eqr { "qh'yj g'Uchgv' 'Rqnk{ 0'

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*Signature*

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*Date*



# HOW TO WRITE AND EFFECTIVELY USE A SAFETY PLAN

By

Julie A. Pace

Stinson Morrison Hecker LLP

## I. WRITTEN SAFETY PROGRAM.

Ego r cplgu"uj qwf "j cxg" c"eqo r tgi gpukxg"y tkwgp"uchgv{ "r tqi tco 0"Vj g"v{ r gu"qh"r qrlkgu" cpf "r tqi tco u"j cv"uj qwf "dg"lpenmf gf "f gr gpf "qp"j g"v{ r g"qh"y qtn"j g"eqo r cp{ "r gthqto u0Uqo g"qh" j g"r qrlkgu"j cv"j g"eqo r cp{ "uj qwf "eqpukf gt"ko r ngo gpv{kpi "lpenmf g."dw'ctg"pqv'hko kgf ."q<"

30Á Go r m{ gg"eqf g"qh"eqpf wev="

40Á J qwugnggr kpi "cpf "ucpkcwkqp="

50Á Rgtuqpcnr tqvgevkxg"gs wkr o gpv="

60Á Ncf fgtu"cpf "uechhqr kpi ="

70Á Rqtvdrg'r qy gt"cpf "j cpf "vqqn="

80Á O cvgtkcu"j cpf r kpi "cpf "uxqtc i g="

90Á Hcm'r tqvgevkqp="

: 0Á Gzecxckqp"cpf "tgpej kpi ="

; 0Á Nqenqwkci qw="

320Á T gur kt cvqtu="

330Á gct kpi "eqpugtxcwkqp="

340Á E qphkpgf "ur ceg="

350Á Dmqf dqtpg'r cvj qi gp="

360Á Grgextlecn="

370Á E qpetgvg="

380Á Rtg/lqd"uchgv{ "qtkgpvcwkqp"ej gemkuvhqt "uwdeqptcevtu="

390Á Lqd"ukg"uchgv{ "l pur gevqpu"qt "cvf ku="

3: 0Á Ceekf gpv'kpxguvi cwkqp="

"

"

RJ ZF QEU"446348x3"

"LwlgRcegIF cxlf "Ugrf gp"  
Ukpuqp'O qttkuqp"J gengt'NNR



"

3; 0~~0~~ c~~0~~ p~~0~~ c~~0~~ k~~0~~ p~~0~~ i "eqo r cp{ 'tgeqtfu.'lpenmf lpi "QUI C"422'hi ="  
"  
420~~0~~ uchgv{ "cy ctf "lpegpvkxg"cy ctf ="  
"  
430~~0~~ rtg/lpur gev~~0~~ k~~0~~ p~~0~~ "QUI C"r q~~0~~ r~~0~~ k~~0~~ e{ ="  
"  
440~~0~~ uchgv{ 'cwgpfcpeg'b gg~~0~~ v~~0~~ k~~0~~ p~~0~~ i 'hqto ="  
"  
450~~0~~ uchgv{ 'xkq~~0~~ r~~0~~ v~~0~~ k~~0~~ p~~0~~ i 'hqto ="  
"  
460~~0~~ Go gti gpe{ 'r tgr ctgf pg~~0~~ u~~0~~ 'r tqegf w~~0~~ t~~0~~ gu.'lpenmf lpi "o gf lecn'cpf "htuv'ckf "  
tgs w~~0~~ t~~0~~ go gpw'cpf "htg'r t~~0~~ gxgp~~0~~ v~~0~~ k~~0~~ p~~0~~ i 'r tqvgev~~0~~ k~~0~~ p~~0~~ i ="  
"  
470~~0~~ Go gti gpe{ 'tguewg'cpf "t~~0~~ gur qpug="  
"  
480~~0~~ E qo r cp{ "uchgv{ "eqo o kvgg="  
"  
490~~0~~ E qo r cp{ "uchgv{ "gf wecv~~0~~ k~~0~~ p~~0~~ i 'cpf "vtcl~~0~~ k~~0~~ p~~0~~ i . 'lpenmf lpi "uwr gt~~0~~ x~~0~~ l~~0~~ u~~0~~ q~~0~~ t{ "vtcl~~0~~ k~~0~~ p~~0~~ i . "v~~0~~ j g"  
o c~~0~~ p~~0~~ p~~0~~ g~~0~~ t "lp'y j lej "go r m{ gg'uchgv{ 'tw~~0~~ r~~0~~ u~~0~~ 'ctg'eqo o w~~0~~ p~~0~~ l~~0~~ ec~~0~~ v~~0~~ g~~0~~ f "v~~0~~ q"go r m{ gg~~0~~ u"  
cpf "uwdeqpvtcevqtu'go r m{ gg~~0~~ u.'cpf "uchgv{ "vq~~0~~ n~~0~~ 'd~~0~~ q~~0~~ z "v~~0~~ c~~0~~ m~~0~~ u=" "  
"  
4: 0~~0~~ G~~0~~ z~~0~~ r gev~~0~~ v~~0~~ k~~0~~ p~~0~~ u'qh'uwdeqpvtcevqtu'tgi ctf lpi 'uchgv{ ="  
"  
4: 0~~0~~ A c| ctf qwu'eqo o w~~0~~ p~~0~~ l~~0~~ ec~~0~~ v~~0~~ k~~0~~ p~~0~~ u'r tqi tco "O UF U"uj gg~~0~~ w~~0~~ u=" "  
"  
520~~0~~ A cej k~~0~~ p~~0~~ g~~0~~ t{ "cpf "x~~0~~ g~~0~~ j l~~0~~ e~~0~~ n~~0~~ g~~0~~ u.'cpf "r qy gtgf "lp~~0~~ f w~~0~~ u~~0~~ t~~0~~ k~~0~~ n'v~~0~~ w~~0~~ e~~0~~ m~~0~~ u=" "  
"  
530~~0~~ A q~~0~~ t~~0~~ m~~0~~ k~~0~~ u'vtcl~~0~~ k~~0~~ p~~0~~ i ="  
"  
540~~0~~ A t~~0~~ w~~0~~ i "cpf "c~~0~~ r~~0~~ e~~0~~ q~~0~~ j q~~0~~ n~~0~~ r q~~0~~ r~~0~~ k~~0~~ e{ ="cpf "  
"  
550~~0~~ C~~0~~ e~~0~~ n~~0~~ p~~0~~ qy r~~0~~ g~~0~~ f i o gpv'a^ A~~0~~ go r m{ gg'qh'tgeg~~0~~ k~~0~~ v'qh'eqo r cp{ "r q~~0~~ r~~0~~ k~~0~~ e{ "cpf l~~0~~ q~~0~~ t'vtcl~~0~~ k~~0~~ p~~0~~ i "  
tgi ctf lpi "eqo r cp{ "r q~~0~~ r~~0~~ k~~0~~ e~~0~~ l~~0~~ g~~0~~ u'

"

Uqo g'qh'v~~0~~ j g'cdq~~0~~ x~~0~~ g'r q~~0~~ r~~0~~ k~~0~~ e~~0~~ l~~0~~ g~~0~~ u'o c{ "dg'eqo d~~0~~ l~~0~~ p~~0~~ g~~0~~ f "qt'y tkw~~0~~ p'cu'ugr ctcv~~0~~ g'r q~~0~~ r~~0~~ k~~0~~ e~~0~~ l~~0~~ g~~0~~ u"Vj g'eqo r cp{ "  
uj q~~0~~ w~~0~~ f "lpenmf g'c"eqpur lew~~0~~ q~~0~~ w~~0~~ u'go r m{ o gpv'cv'y k~~0~~ n~~0~~ i'rtqx~~0~~ k~~0~~ k~~0~~ p'cv'v~~0~~ j g'dgi k~~0~~ p~~0~~ l~~0~~ p~~0~~ i "qh'v~~0~~ j g'eqo r cp{ u'uchgv{ "  
r tqi tco . 'w~~0~~ p~~0~~ r~~0~~ g~~0~~ u'k'ku'r t~~0~~ gxgp~~0~~ v~~0~~ g~~0~~ f "htqo "f q~~0~~ k~~0~~ p~~0~~ i "u~~0~~ q' d{ "c'w~~0~~ p~~0~~ k~~0~~ p~~0~~ i "eqpvtcev~~0~~ "

"

K~~0~~ p'eqputwev~~0~~ k~~0~~ p~~0~~ i . "h'v~~0~~ j g'i gp~~0~~ g~~0~~ t~~0~~ c~~0~~ n'eqpvtcevqt"j cu'c'y tkw~~0~~ p'eqo r cp{ "uchgv{ "r tqi tco . "v~~0~~ j g"QUI C "  
k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ q~~0~~ t'y k~~0~~ n~~0~~ i'rtqeg~~0~~ g~~0~~ f "w~~0~~ p~~0~~ f gt"v~~0~~ j g'Hqewu~~0~~ g~~0~~ f "k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ k~~0~~ p~~0~~ i "k~~0~~ k~~0~~ k~~0~~ v~~0~~ k~~0~~ g~~0~~ u"Vj g'k~~0~~ k~~0~~ k~~0~~ v~~0~~ k~~0~~ g'tgeqi p~~0~~ k~~0~~ gu'v~~0~~ j g'gh~~0~~ q~~0~~ t~~0~~ w~~0~~ u"  
qh't~~0~~ g~~0~~ u~~0~~ r qpuk~~0~~ d~~0~~ r~~0~~ g"eqpvtcevqtu"y j q"j cxg"ko r ngo gp~~0~~ v~~0~~ g~~0~~ f "gh~~0~~ gev~~0~~ k~~0~~ g"uchgv{ "cpf "j gcn~~0~~ j "r tqi tco u."cpf "ku"  
f gu~~0~~ k~~0~~ i p~~0~~ g~~0~~ f "v~~0~~ q"gp~~0~~ eqwtci g'q~~0~~ v~~0~~ gt'eqpvtcevqtu"v~~0~~ q'cf q~~0~~ r v'uko k~~0~~ r~~0~~ t"r tqi tco u~~0~~ k~~0~~ p'q~~0~~ t~~0~~ f gt"v~~0~~ q's w~~0~~ c~~0~~ r~~0~~ k~~0~~ h{ "h~~0~~ q~~0~~ t'c'Hqewu~~0~~ g~~0~~ f "  
k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ k~~0~~ p~~0~~ i . "v~~0~~ j g'eqo r cp{ "o w~~0~~ u~~0~~ v'j cxg"c'y tkw~~0~~ p'rtqlgev'uchgv{ "cpf "j gcn~~0~~ j "r tqi tco "v~~0~~ j cv'uc~~0~~ v~~0~~ k~~0~~ u~~0~~ h~~0~~ g~~0~~ u"v~~0~~ j g"  
tgs w~~0~~ t~~0~~ go gpw'qh'4; "E~~0~~ H~~0~~ T~~0~~ O' E"3; 48."Uwdr c~~0~~ t~~0~~ v'E."cpf "j cxg"c" f gu~~0~~ k~~0~~ i p~~0~~ cv~~0~~ g~~0~~ f "r gt~~0~~ u~~0~~ q~~0~~ p"t~~0~~ g~~0~~ u~~0~~ r qpuk~~0~~ d~~0~~ r~~0~~ g"ht"cpf "  
ecr c~~0~~ d~~0~~ r~~0~~ g"qh'ko r ngo gp~~0~~ v~~0~~ k~~0~~ p~~0~~ i "v~~0~~ j g'r tqi tco O'k~~0~~ i'v~~0~~ j g'eqo r cp{ "s w~~0~~ c~~0~~ r~~0~~ k~~0~~ h~~0~~ g~~0~~ u"ht"c"Hqewu" k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ k~~0~~ p~~0~~ i . "v~~0~~ j g"QUI C "  
k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ q~~0~~ t'y k~~0~~ n~~0~~ i'eqp~~0~~ f wev'cp'k~~0~~ p~~0~~ u~~0~~ r gev~~0~~ k~~0~~ p~~0~~ i "v~~0~~ j cv'ku'iko k~~0~~ g~~0~~ f "v~~0~~ q'hqewu~~0~~ lpi "qp'v~~0~~ j g'hq~~0~~ w'rgcf lpi "j c| ctf u~~0~~ "

"

"

RJ ZF QEU'446348x3"

LwdgRceglF cxkf "Ugrf gp"  
Ukpuqp'O qttkuqp"J gengt'NNR"



" 30' Hcm\*gd 0'hmqtu.'r mchqto u.'tqqhu.'twuugu.'hgc f kpi 'gf i g+="

" 40Á Utwemld{ '\*gd 0'hckkpi 'qdlgeu.'xgj kengu+="

" 50Á Ecwi j v'kp"qt'dgwy ggp'\*gd 0'ecxg/kpu.'wpi wctf gf "o cej kpgt{.'.gs wkr o gpv+="

" cpf "

" 60Á Grgextkecn\*gd 0'qxgtj gcf 'r qy gt 'hkgu.'r qy gt 'vqqu'cpf 'eqtf u.'qww'ngvu."

" vgo r qtct{ 'y k kpi +0'

" Vj g'kpur gevqt.'j qy gxgt.'ecp'kpur gev'ht'kgo u'qy gt 'y cp'y g'rgcf kpi 'hqw'j c| ctf u'h'j g'qt'uj g"

" qdugtngu'c'ugtkwu'j c| ctf 0'

## II. ENFORCEMENT OF SAFETY POLICIES AND PROCEDURES.

" Y j gp'k'ku'pgeguet{ 'v'y ctp'cp'go r m{ gg'qh'cp'kphcevkqp'qh'eqo r cp{ 'uchgv{ 'twgu.'xgt dcn'qt"

" y tkwgp'tgr tko cpf u'uj qwf "dg'kuwgf 0"Vj g'uchgv{ 'hqtgo cp'qt'qy gt "o cpci gt'uj qwf "kuwgf'c'xgt dcn'qt"

" y tkwgp'tgr tko cpf "cu'uqqp'cu'y g'kphcevkqp'j cu'dggp'qdugtngf 0'

" COÁ Vj g'Tgr tko cpf 'Ugtngu'Vq<

" 30Á Cmqy "go r m{ ggu'v'ej cpi g'wpuchg'y qtnlr tcevegu0'

" 40Á Gpuwtg'y cv'f qewo gpvcvkqp'qh'y g'kphcevkqp'y kn'dg'tgvckpgf 'kp'cp"

" go r m{ ggu'r gtuqppgn'hkg0'

" 50Á I wctcpvgg'y cv'go r m{ ggu'ctg'y ctpgf "qh'twg'kphcevkqp'u'r tkqt "v'htv j gt"

" f kuer npct{ 'cevkqp'dgkpi 'cnngp0'

" 60Á Gzco r ngu'qh'eqpf wev'y cv'y qwf "o cng'k'cr r tqr tkvg'v'kuwgf'c'tgr tko cpf "

" kpenwf g'y g'hmqy kpi 'tgcuppu<

" 70Á Rgthqto kpi 'y qtnlkp'cp'wpuchg'o cppgt0'

" "80' Hck'htg'v'y gct'r tqr gt 'r tqvevkg'gs wkr o gpv.'uwej "cu'g{ g'r tqvevkqp.'j ctf "

" j cu.'gve0'

### B. Examples of Conduct That Would Make it Appropriate to Dismiss an Employee Include the Following Reasons:

" 30Á Tgr gcvgf 'xkqrkvkpu'qh'uchgv{ 'twgu0'

" 40Á Y knhwn{ 'gpf cpi gtkpi "qpgu'rhg"qt 'y g'hxgu'qh'qy gt "go r m{ ggu0'

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# INCIDENT INVESTIGATION PROCESS

## Purpose

This policy establishes how OUR COMPANY will investigate workplace accidents.

After reading this policy, employees will understand the following:

- Who conducts accident investigations
- What information needs to be recorded
- How information is recorded
- What actions must be taken after an investigation

## Scope

This policy applies to all employees at OUR COMPANY.

## OPERATING PROCEDURES

The following outlines the proper procedures employees must follow during an accident investigation.

### WHO

- The Supervisor in charge of the area or department where the accident occurred is responsible for conducting the investigation.
- The investigator should be held accountable for reporting the investigation carefully and clearly.

### WHAT

The investigator will determine the following:

- Whether the accident is work-related
- The scope of the investigation
- What happened:
  - Describe what took place that prompted the investigation and what the employee(s) was/were doing at the time of the accident.

### WHEN

- The investigation should be done immediately following the accident.

### WHERE

- The investigation and witness statements should be completed at the scene of the accident.
- Take pictures of the scene.
- Draw a sketch or diagram of the accident.

### WHY

- Determine why the accident happened.
  - Obtain all the facts surrounding the accident.
    - What caused the accident to occur—direct or indirect cause
    - The sequence of events before the accident occurred
    - Who was involved
    - What is the extent of the injuries and/or damage resulting from the accident



# INCIDENT INVESTIGATION PROCESS

- Was/were the employee(s) involved properly trained
- Was/were the employee(s) qualified to perform the functions involved in the accident
- Were proper operating procedures established for the task involved
- Were the proper operating procedures followed—if not, why not

## HOW

Use accident recording forms and an accident investigation kit to record the investigation and ensure you gather all necessary information.

## AFTER THE INVESTIGATION

- Provide copies of the forms used as well as any notes on the investigation to the appropriate Managers and Supervisors and your insurance carrier.
- If the accident is OSHA recordable, enter it into your OSHA log.
- Determine whether the situation or conditions that led to this accident exist anywhere else in the company.
  - If so, take action to correct this.
- Use the accident as an opportunity to review safety procedures, personal protective equipment use or any other applicable training with your employees.



# INJURY & ILLNESS REPORTING POLICY

## **Injury & Illness Reporting Policy**

Our Company is committed to establishing and maintaining a comfortable and safe working environment for all employees.

Safety is often taken for granted in an office environment. Though generally, we may not be exposed to the same degree of risk as employees of a manufacturing firm or health care facility, we must still recognize that safety risks are present and take steps to reduce the risk of injury or illness. Safety is everyone's responsibility.

All work-related injuries and illnesses must be reported immediately to your Supervisor or Human Resources, even if you are not sure whether they are truly work-related. Small, seemingly insignificant injuries left untreated can result in serious conditions.

Human Resources will complete an Accident Report based on the information you provide. Report injuries and illnesses immediately so that we can investigate and incorporate corrective action to prevent more injuries.

If you see any potential hazards that need attention, notify your Supervisor or Human Resources immediately.



# SAFETY POLICY

## Safety Policy

OUR COMPANY wants to ensure that our employees remain safe and injury-free at all times. The company intends to comply with all applicable safety laws. In order to guarantee that accidents are avoided whenever possible, we expect our employees to refrain from horseplay, careless behavior and negligent actions. It is the company's policy to maintain a safe and secure working environment for all employees and clients.

While working, employees must observe safety precautions for their safety and for the safety of others. All work areas must be kept clean, and free of clutter and debris. Any hazards or potentially dangerous conditions must be corrected immediately or reported to a supervisor.

If you are involved in an accident, you must:

- Report the accident to your supervisor or to Human Resources immediately
- Obtain any necessary medical treatment
- Fill out an Accident Report, regardless of the severity of the injury
- If you must seek additional medical treatment, obtain your supervisor's consent before leaving the premises

Employees who fail to comply with this procedure may be subject to disciplinary action.

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President

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Safety Manager

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Date



# CONSULTATION & DISCIPLINE

## DISCIPLINARY ACTION

### General

The success of the Safety and Health Process is, to a large extent, dependent upon employee involvement, cooperation, and strict compliance with established safety rules and regulations. While safety education, buy in, and voluntary compliance is the preferred method of gaining employee cooperation, there may be situations when disciplinary action may be necessary. If an employee engages in unsafe work practices and/or willfully violates known and accepted safety practices, regulations or laws, they are subject to immediate removal from the workplace. When disciplinary action or termination is required, such action should be handled in accordance with the Disciplinary/Termination Procedures.

### Disciplinary/Termination Procedures

A supervisor's main goal in the management of people should be to develop and motivate them to their highest potential. Disciplinary procedures should be utilized with that purpose in mind.

However, at times it becomes necessary to relieve an employee of his or her responsibilities and terminate employment.

The following pages outline the proper procedures, which may be followed when it becomes necessary to discipline or terminate an employee. These procedures have been prepared only for the use of supervisory personnel. They are not intended to form a contract between the Company and any of its employees. The Company reserves the right to terminate any employee for any reason at any time without advance notice or warning. The sole purpose of the disciplinary procedures is to describe for supervisory employees the Company's general philosophy concerning discipline and related separation decisions. The Company fully recognizes that each termination decision presents a unique set of circumstances, which may well, in a given case, dictate the need for only a single verbal or written warning or for immediate termination without any prior warning. The disciplinary procedures, which follow, have been slightly revised from a prior version to make it clear that they are preferred personnel management tools but not mandatory rules. All prior versions of the disciplinary procedures are revoked and superseded for all purposes by the following procedures.



# CONSULTATION & DISCIPLINE

## Consultation & Discipline, continued . . .

### **Incident File**

An incident file should be initiated for an employee with performance problems. If you feel that a formal counseling or termination may eventually become necessary, keep a record of these incidents. This written documentation is for your use if the employee denies or questions your reasons for giving a verbal warning or written Counseling Statement, or for issuing a termination. These records need not be formal, only factual and complete with dates and descriptions.

Note: When documenting an employee's shortcomings or reasons for termination, never use attitude as a factor. A bad attitude creates poor performance. Look for resulting inadequate performance and state that as a reason or reasons for discipline or termination. Seek out possible reasons for poor performance; there may be instances where an employee's performance and or actions are not solely the fault of the employee. Unsafe acts could be the result of inadequate training, lack of proper ppe, faulty equipment or a supervisor's failing to correct at-risk conditions. The reasons for performance must be investigated and the root of the problem identified in order to be fair to individuals and to eliminate the entire cause, or causes.

### **Verbal Warning**

Verbal warnings are used to inform an employee of safety violations and/or shortcomings in performance and what can be done to conform to established standards.

- A. Inform the individual that his or her job is in jeopardy and could be lost if he or she does not comply with recommended improvements.
- B. Be specific. Inform the employee of the exact shortcomings which must be improved in order to retain his or her employment with the Company.
- C. Specify a time period during which noticeable improvement must be made.
- D. Ask for the employee's comments on the problem. Be sure the employee understands the verbal warning and its implications.
- E. Keep a record of the date and nature of this warning for future use.



# CONSULTATION & DISCIPLINE

## Consultation & Discipline, continued . . .

### Employee Counseling

If improvement does not result with the time established at the time of the verbal warning, conduct a formal employee counseling session. Use *Employee-Safety/Performance Counseling Form*. See Section 15B.

Formal written counseling sessions are to be placed in the employee's file in the Personnel Department, and, for field employees, also in the personnel files.

- A. Fill in the top portion of the form, being sure to date accurately.
- B. Check the appropriate shortcoming, or describe in the area for "Other" and write out your comments with dates and specifics.
- C. Describe in detail, the incident and list any witnesses. Provide the date that the employee was given verbal notification that his or her performance was unsafe or unsatisfactory.
- D. Determine exactly what the employee must do in the future to correct and/or improve their performance. Establish a correction period and discuss the date with the employee. Be sure the employee is aware of the date and consequences. Be sure to state in writing the shortcomings and actions needed to correct them.
- E. Have the employee verbalize or write a response and discuss this response with him or her in detail. Explain the actions we will take if there are further violations and/or if the action plan is not carried out.
- F. If the Counseling results in termination or suspension of an employee, mark the box(s) that apply and sign the form in the space provided. This signature should be legible. If the employee refuses to sign, state that on the form and obtain the witness signature of another supervisor.
- G. Depending upon the severity of the problem, the formal written Counseling can be the first or final warning.
- H. Legibly sign your name in the space provided. If you are not a superintendent, also send the form to the superintendent for signature.
- I. Distribute copies as indicated at the bottom of the form.



# FLEET POLICY

## Fleet Safety

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*COMPANY NAME*

### Purpose

*COMPANY NAME* recognizes that our employees are our most valuable asset and the most important contributors to our continued growth and success. Our Company is firmly committed to the safety of our employees. *COMPANY NAME* will do everything possible to prevent workplace accidents and is committed to providing a safe working environment for all employees.

Motor vehicle accidents are the leading cause of work-related fatalities. The environment in which these accidents occur involves numerous complex factors, many of which are uncontrollable. The purpose of *COMPANY NAME*'s Fleet Safety program is to eliminate unnecessary injuries and fatal circumstances by reducing those factors that we can control. We value our employees not only as employees but also as human beings crucial to the success of their families, the local community and *COMPANY NAME*.

To further this goal, our Company has developed a Fleet Safety Policy effective *DATE*. The Program will consist of six components: Recruitment, Job Requirements, Training, Preventive Maintenance, Accident Investigation and Company Vehicles for Personal Use. This policy applies to all candidates for employment as well as all current employees.

### Recruitment:

*COMPANY NAME* focuses its initial efforts on driver selection through a variety of resources, beginning with the job application. The application will require a prospective employee to do the following:

- List past driving experience, employers, and types of vehicles driven.
- Notify *COMPANY NAME* of any motor vehicle violations for at least the last 3 years.
- List references.

Driver selection will be made upon completion of a formal interview, background check, reference verification, review of the individual's motor vehicle record (MVR) and a negative drug screen. Authorizations will be obtained to contact prior employers and personal references.

MVRs will be requested upon completion of a satisfactory interview and periodically thereafter at a minimum of at least once per year. Management reserves the right to use its discretion in determining an unsatisfactory MVR. An excessive number of violations in the past three years will be grounds for an unsatisfactory MVR prohibiting hiring of a prospective employee or possible termination and/or disciplinary actions of an active employee. Driver records for anyone operating a vehicle for *COMPANY NAME* will be obtained as allowed by State requirements, or as part of the **Employers Pull Notice Program (EPN)**, and it is company policy that drivers in any state will participate in the EPN.

### Drug/Alcohol Testing:

Initial and periodic random drug and alcohol testing is mandatory. Testing will be conducted by a licensed medical facility designated by *COMPANY NAME*. Any positive results will be grounds for termination. Driving under the influence of alcohol or any other illegal substances will be grounds for termination.

### Job Requirements:

All positions requiring regular driving (including forklift operators) require a written job description to include main duties, functions and the necessary physical requirements required to perform all associated tasks:

- All prospective employees may be required to undergo a physical evaluation
- If required, candidates must pass a Department of Transportation (DOT) physical evaluation
- In some cases, Commercial Drivers Licenses (**class A/B**) may be required per regulatory agencies.



# FLEET POLICY

As part of the recruitment process, prospective employees may be required to complete a road test. Active employees will participate in periodic road tests for training purposes. Tests will be conducted by Human Resources and/or management and will cover a variety of driving criteria. The road test will require prospective and active employees to safely and competently complete tasks associated in the following categories:

- Pre-trip Inspection
- General Vehicle Operation
- Backing and parking
- Turning
- Passing
- Railroad crossing

Results of the road test will be shared with prospective and active employees at management's discretion.

## Training:

New-hire and periodic training is required. All employees are expected and required to actively participate identifying training needs as well as program development. Programs will consist of classroom and on-the-road modules. Training will focus on but will not be limited to defensive driving techniques and behavior modification.

**COMPANY NAME** will monitor driver habits to identify potentially unsafe driving habits that require additional training and/or disciplinary actions. We will use ride-along training combined with statistical data focusing on accident types and frequency to identify areas of improvement. Three accidents or moving violations in a one calendar year period will require review with a supervisor to determine what, if any, disciplinary action is needed and to identify possible training opportunities. Employment may be jeopardized if accident frequency is above the required norm with no concentrated efforts being made for improvement.

## Basic Vehicle Operation Guidelines:

Employees are expected to treat company vehicles with an appropriate level of respect and care, demonstrating an attitude of loyalty and pride to the company. The following are basic vehicle operation principles to which employees are required to adhere:

- Always use seat belts.
- Drive defensively. Always anticipate what other drivers on the road might do wrong and plan your mode of escape. Never move through traffic aggressively.
- Respect speed limits and traffic signs. Follow all traffic signals.
- Always lock the vehicle and apply the parking brake when getting out, even if it remains in sight.
- During long trips, take breaks every four hours. Never drive more than 10 hours during a 24-hour period.
- Avoid driving past midnight.
- Avoid driving in dangerous conditions, including drowsiness and inclement weather.
- Remove any trash or personal items before returning the vehicle to **COMPANY NAME**.

## Traffic Violations

**COMPANY NAME** is not responsible for any traffic violations or parking tickets acquired by violation of city ordinance, state or federal laws regarding your driving habits and operation of your motor vehicle. Any ticket issued is the employee's responsibility, even if the ticket is issued while conducting business for **COMPANY NAME**.



# FLEET POLICY

## Motor Vehicle Record Criteria

**COMPANY NAME** employees are prohibited from driving any Company vehicle until they have received notification from the Safety Dept. that they are an “Authorized” driver. To be considered an Authorized driver, the employee must have a valid Drivers’ License for the primary state they will be operating within, of the appropriate Class for the vehicle to be operated. The Motor Vehicle Record (MVR) will be checked at time of hire and periodically thereafter.

To assure consistency in determining a vehicle operator’s fitness to operate a company vehicle, we will classify driving records into four groups:

1. Clean – no violations or at-fault collisions
2. Acceptable – No Type “A” violations **and** 1 or less Type “B” violations
3. Watch – No Type “A” violations **and** 2 Type “B” violations
4. Unacceptable – Any Type “A” violations or 3 or more Type “B” violations

### Violation Types

Type “A” Violations	Type “B” Violations
Driving under the influence of drugs or alcohol	Speeding
Refusing a substance test	Improper lane change
Reckless Driving or Excessive Speeding	Failure to yield
Leaving the scene of an accident	Careless driving
Racing/Speed Contest	Failure to obey traffic sign/signal
Driving while license is suspended/revoked	At-Fault Collision (driver cited for violation)
Manslaughter or Felony conviction	Most other “moving” violations

## Watch Status

A driver will be placed on “Watch” status when they have two moving violations in the review period. The following steps for these drivers are:

- The driver’s supervisor will conduct an in person meeting with the driver to discuss placement on “Watch” status, potential loss of driving privileges and possible termination of employment. Driver will sign an acknowledgement memo of “Watch” status.
- The driver will be required to successfully complete an assigned Driver Education program, within 30 days of notification. A certificate of completion will be submitted by the driver and the certificate will be placed in driver’s personnel file. Should driver not comply, driving privileges will be suspended or terminated.
- The driver must immediately disclose to their Supervisor **any and all** driving violations, immediately. This includes violations that occur on business or personal time, in personal vehicles.
- The driver’s MVR will be reviewed periodically until the driver’s record changes to “Acceptable” or “Unacceptable”.

## Refueling Guidelines

Vehicles should be refueled when the meter reads ¼ full. Retain receipts proving the purchase of gasoline and record mileage with each gasoline purchase. For your safety when operating a vehicle, follow these guidelines:

- Turn off the vehicle’s engine while refueling.
- Never smoke, light matches or use lighters while refueling.
- Do not get into the vehicle during refueling, as this presents a flash fire hazard.
- Do not overfill or top off the vehicle’s fuel tank. The fuel dispenser shuts off automatically when the tank is full.
- Never force the hold-open latch on the gasoline pump with any means other than the latch provided.



# FLEET POLICY

## Distracted Driving

**COMPANY NAME** is committed to employee safety, and for this reason firmly prohibits all behavior that distracts employees while they are operating a company vehicle. General guidelines for behavior while driving are as follows:

- Use of cell phones while driving is strictly prohibited: This includes all functions of the cell phone including, but not limited to, phone calls, text messaging/SMS, email, MMS, Internet use and camera use.
- Use of electronic devices (including laptops, PDAs, cameras and pagers): While driving is strictly prohibited unless specifically outlined below.
- Voicemail must handle all calls while driving, and calls may only be returned when stopped or pulled off the road.
- Passengers making or taking calls for the driver is permissible provided the interaction does not affect the driver's performance.
- Regular callers must be informed that you will not be available while driving and should be notified of the best times to call based on driving schedule.
- Employees who receive calls from co-workers who are driving are obligated to ask that the co-worker call back at a more appropriate time.

## Headset/Hands-free Use

The use of headsets or hands-free devices while driving is permissible under the following conditions:

- The device is pre-approved by **COMPANY NAME** for use.
- Use of the device does not cause distraction (e.g., fiddling with the device or taking eyes off road to get it to function properly).
- Any dialing or use of the handset is handled while stopped or pulled to the side of the road.
- Conversations do not interfere with the driver's ability to drive safely.
- Road conditions are generally good and do not threaten your safety.

## Emergency Calls

The only exception to the cell phone use guideline is calls placed to 911. If placing or accepting an emergency call, it should be kept short with a hands-free option if available. The vehicle should be pulled over if possible.

## GPS Systems

**COMPANY NAME** understands that sometimes, especially when traveling in unfamiliar areas, drivers require assistance with directions. GPS systems are extremely helpful devices, but they can also be distracting if used improperly. Employees must adhere to the following:

- Mounted GPS systems may not block or obstruct the driver's view in any way.
- GPS systems must be voice narrated and must not require that the driver look away from the road to follow instructions.
- Employees may not program the system while in motion.
- Programming or otherwise engaging with the GPS screen may only occur while stopped or while pulled off the road.

## MP3 and Other Audio Devices

In some cases, worrying about music selection or touching dials and buttons on the radio, MP3 player or other audio device may be just as dangerous as cell phone use. It takes eyes and concentration off the road, which is not permissible under **COMPANY NAME** policy.

**COMPANY NAME** allows employee use of personal, portable audio devices, because we do not want to eliminate employees' ability to enjoy music while behind the wheel. However, employees must follow these guidelines:

- Employees may not take eyes off the road to adjust music settings.



# FLEET POLICY

- Programming music settings while stopped, pulled off the road or before departing is permissible behavior.
- Employees may not under any circumstances use MP3 players or other handheld electronic audio devices with headphones. Not only is it illegal in most states, it also impedes the driver's ability to properly hear warning signs, signals or sirens.

## Preventive Maintenance:

To maintain the safety and integrity of the vehicle, **COMPANY NAME** will provide the necessary resources to ensure all vehicles are operating properly. All routine motor vehicle maintenance will be done according to the manufacturer's specifications. Critical components that must always be controlled, maintained and promptly repaired are: brakes, tires, suspension, steering, lights, mirrors, windows and windshield wipers.

## Pre-trip Inspections

Employees are required to conduct pre-trip vehicle inspections. Any unsatisfactory result requires a Fleet Hazard Identification form to be completed and forwarded to an employee's immediate supervisor. Thereafter, the identification form will be forwarded to the maintenance department to confirm the equipment malfunction, complete repairs, and sign off on the completed identification form.

## Placing a Vehicle Out of Service

The fleet administrator must conduct thorough post-trip vehicle inspections to ensure the vehicle's safety for its next driver. When a defect in the vehicle is found that qualifies it as unfit, unreliable or unsafe for ordinary use, the fleet administrator must immediately take the vehicle out of service and fill out the Fleet Hazard Identification Form indicating the nature of the defect. The form should be forwarded to the maintenance department to confirm the defect and repair it if possible.

## Vehicle Inventory

[Fleet administrator] will be responsible for maintaining a database of each vehicle's make, model, department, VIN number and license plate number. [Fleet administrator] will also manage and update a log for each vehicle including its location at any given time and the person who is driving it. The administrator will also take inventory of any minor defects or needed repairs, and schedule needed maintenance work as appropriate.

## Accident Investigation Procedures:

**COMPANY NAME** realizes some accidents are unpreventable. Drivers should seek medical attention immediately, if necessary. Supervisors and drivers will be trained in post-accident procedures to secure the details of the accident and document the damage. Providing detailed facts of the accident will help our insurance carrier deter fraudulent third-party insurance schemes.

All vehicles will be supplied with an accident claims kit, a pen and a disposable camera.

Drivers are required to document all details of the accident: traffic flow, speed limits, stop lights/signs, weather conditions, citations issued and all other relevant information. Pictures should be taken to document the extent of damage to all vehicles involved.

Once this information is secured, the driver is to report all accidents immediately to the dispatcher and/or supervisor. If the vehicle is inoperable, arrangements need to be made for towing and delivery of cargo, if necessary. Hazmat operations, containment and cleanup will be coordinated by dispatcher, supervisor and/or driver.

## Company Vehicles for Personal Use

Personal use of company vehicles is prohibited without prior permission from management. If permission is granted, the employee assigned to the vehicle will be the only driver allowed to operate the vehicle. In all other cases, use of the company vehicle is limited to travel to and from work and work-related events. Any errand or travel that is not directly work related is considered personal travel. The vehicle is not to be used for personal or entertainment purposes. Employees are expected to use their discretion. Any citations received while operating a company owned vehicle are the responsibility of the Driver. All applicable laws and regulations apply, including operating while under the influence of alcohol or other controlled substances, or the transportation of alcohol or illegal drugs.



# FLEET POLICY

## Personal Vehicles used for Company Business

The **Fleet Administrator** must review and approve use of a personal vehicle for company business.

Drivers must have had a valid drivers license for at least 3 years

Employees who drive personal vehicles on company business must provide evidence of automobile liability insurance as required by the related State. A current certificate or proof of insurance must be kept in the employee's file.

Drivers must submit annual proof of liability coverage on their personal vehicle with limits of coverage exceeding \$100,000/\$300,000/\$50,000 and **COMPANY NAME** named as an additional insured.

This company does not provide liability insurance for employees who use their own vehicles on company business. Employees who use their personal vehicles on company business are responsible for all liability resulting from use of their vehicles.

Any employee who drives a personal vehicle on company business and who does not maintain insurance coverage on that vehicle will be reassigned to a non-driving position or, if a non-driving position is not available, will be terminated.

Employees are required to maintain their vehicles in good condition, including all safety items (glass, mirrors, brakes, etc.)

Drivers must use their seat belts at all times and the use of cell phones for manual dialing or texting is prohibited.

## Prohibited Behavior

Use of company vehicles is a privilege. Behaviors that result in suspension or permanent loss of driving privileges include the following:

## Specialty Vehicles

Golf carts and other specialty vehicles (including scooters, mules and quad vehicles) in use on **COMPANY NAME** property to move people and materials around the facility require specific precautions:

- Vehicles must travel at an acceptable speed, slowing down in wet or slippery conditions.
- Vehicles must yield to pedestrians.
- Vehicles must keep to designated paths and roadways, staying off major streets. Carts may not block traffic paths where parked.
- Vehicles may not carry more passengers than the cart is designed to accommodate. If the vehicle is equipped with seat belts, they must be used.
- All passengers must keep hands, feet and other body parts inside the vehicle.
- The driver must be aware of surroundings, paying attention to driving signs and warnings, even if they are directed at autos and listening for warnings like emergency vehicle sirens, children playing or other vehicles.
- Adhere to all applicable traffic laws.



# FLEET POLICY

Fleet Safety Policy  
Appendix A

## Notice to Employees

Traffic-related motor vehicle accidents are the leading cause of work-related fatalities. The environment in which these accidents occur involves numerous complex factors, many of which are uncontrollable. The purpose of **COMPANY NAME's** Fleet Safety program is to eliminate unnecessary injuries and fatal circumstances by reducing those factors that we can control. We value our employees not only as employees but also as human beings crucial to the success of their family, the local community and **COMPANY NAME**.

All employees are expected and required to actively participate in this program for their own health and well-being. **COMPANY NAME** encourages its employees to take a proactive approach in identifying potential hazards by promptly reporting them to their supervisor. **The use of seatbelts and other safety devices is mandatory.**

MVRs will be requested periodically at a minimum of at least once per year. Management reserves the right to use its discretion in determining an unsatisfactory MVR. As a guideline, three violations in the past three years will be grounds for an unsatisfactory MVR and cause for termination and/or disciplinary actions. Driver records for anyone operating a vehicle for **COMPANY NAME** will be obtained as allowed by State requirements, or as part of the **Employers Pull Notice Program (EPN)**, and it is company policy that drivers in any state will participate in the EPN.

**COMPANY NAME** conducts mandatory random drug and alcohol testing. Driving under the influence of alcohol or other illegal substances is grounds for termination.

New hire and periodic employee training will be offered. All employees are expected and required to actively participate identifying training needs as well as program development. Programs will consist of classroom and on the road modules. Training will focus on but not limited to defensive driving techniques and behavior modification.

We encourage all employees to report any and all maintenance and malfunction issues immediately to their supervisor. **COMPANY NAME** realizes a proper working vehicle is the first step to ensuring everyone's safety.

All vehicles will be supplied with an accident claims kit, a pen, and a disposable camera. Drivers are required to document all details of the accident: traffic flow, speed limits, stop lights/signs, weather conditions, citations issued and other relevant information. Pictures should be taken to document the extent of damage to all vehicles involved. **Report all accidents immediately to your dispatcher or supervisor.**

Personal use of company vehicles is prohibited without prior permission from management.

I have read and understand **COMPANY NAME's** Fleet Safety Policy, and its requirements and expectations of me as an employee.

---

Employee signature

Date



# FLEET POLICY

Fleet Safety Policy  
Appendix B

## Our Pledge to You

We expect our employees to demand the resources and support to adhere to this Fleet Safety Policy. Our pledge to you ensures your safety concerns will be met.

We pledge to do the following:

- Provide a safe working environment.
- Maintain vehicles on a regular schedule.
- Train drivers in safe driving practices and proper use of vehicle safety features. Training is performance-based and will be periodically repeated.
- Establish schedules that allow you enough time to obey speed limits and that limit your hours of vehicle operation time according to the regulations.
- Coordinate shipments as to provide you the proper rest both physically and mentally.
- Make sure that newly purchased vehicles are equipped with appropriate occupant protection and other safety features.

If you identify a hazard, equipment malfunction or unsafe procedure, please notify us immediately so we can review the situation and make corrections accordingly. Together we can create a safe working environment!

---

President's signature

Date

---

CEO signature

Date



# FLEET POLICY

Fleet Safety Policy  
Appendix C

## Fleet Hazard Notification

Date:

Department:

Hazard or unsafe procedure identified:

Vehicle #:

Recommendations to provide a safer work environment/required maintenance:

Corrective action taken (to be completed by supervisor):

Date corrective action completed: \_\_\_\_\_ Completed by: \_\_\_\_\_  
(to be completed by supervisor/mechanic)

Supervisor signature: \_\_\_\_\_

Employee signature: \_\_\_\_\_



# FLEET POLICY

Fleet Safety Policy  
Appendix D

## Vehicle Inspection Checklist

**Date:**

**Location:**

**Make:**

**Model:**

**Year:**

**Vehicle number:**

**Mileage:**

### Inspection Items

- |   |  |
|---|--|
| <input type="checkbox"/> Headlights       | <input type="checkbox"/> Instruments—gauges        |
| <input type="checkbox"/> Taillights       | <input type="checkbox"/> Horn                      |
| <input type="checkbox"/> Turn signals     | <input type="checkbox"/> Windows—windshield        |
| <input type="checkbox"/> Brake lights     | <input type="checkbox"/> Windshield wipers—washers |
| <input type="checkbox"/> Reflectors       | <input type="checkbox"/> Speedometer               |
| <input type="checkbox"/> Tires and rims   | <input type="checkbox"/> Steering                  |
| <input type="checkbox"/> Battery          | <input type="checkbox"/> Brake system              |
| <input type="checkbox"/> Radiator & hoses | <input type="checkbox"/> Seat belts                |
| <input type="checkbox"/> Exhaust system   | <input type="checkbox"/> Seats                     |
| <input type="checkbox"/> Suspension       | <input type="checkbox"/> Heater/Defroster          |
| <input type="checkbox"/> Fuel system      | <input type="checkbox"/> Mirrors                   |
| <input type="checkbox"/> Oil—water leaks  | <input type="checkbox"/> Safety equipment          |
| <input type="checkbox"/> Water level      | <input type="checkbox"/> Accident kit              |
| <input type="checkbox"/> Transmission     | <input type="checkbox"/> Other                     |

**Body damage (describe):**

**Remarks:**

Inspector signature

Date



# FLEET POLICY

Fleet Safety Policy  
Appendix E

## Vehicle Sign In/Out Log

### Sign out

Employee name:

Date:

Time:

Location:

Vehicle ID number:

Make:

Model:

Odometer:

Fuel level:

Defects noted prior to use:

Employee signature

X

### Sign in

Date:

Time:

Location:

Odometer:

Fuel level:

Notes:

Employee signature

X

Fleet administrator signature

X



# FLEET POLICY

*COMPANY NAME*

## Employee Vehicle Sign In/Out Log

Vehicle ID number:	Make:	Model:
--------------------	-------	--------

Employee name	Date/Time Out	Odometer Out	Date/Time In	Odometer In	Signature



# FORKLIFT SAFETY

## FORKLIFT SAFETY PROGRAM

Effective Date:

Revision #:

### Reference Standard

Occupational Safety and Health Administration, Powered Industrial Trucks, Subpart N, including 29 CFR 1910.178

### Purpose

This procedure establishes minimum standards for training powered industrial truck operators and selecting and maintaining equipment.

### Scope

This guide contains safety requirements relating to fire protection, design, maintenance and use of fork trucks, tractors, platform lift trucks, motorized hand trucks, and other specialized industrial trucks powered by electric motors or internal combustion engines. This section does not apply to compressed air or nonflammable compressed gas-operated industrial trucks, nor does it apply to farm vehicles, nor to vehicles intended primarily for earth moving or over-the-road hauling.

This procedure applies to all company employees, contractors and vendors performing work on company property, as well as all other individuals on-site.

### Responsibilities

- Management is responsible for the development and review of this program. Management is also responsible for appropriate employee training;
- Management and supervisors are responsible for enforcement of this program;
- Employees must comply with all procedures outlined in this policy; and
- Contractors and vendors must comply with all procedures outlined in this policy.

### Definitions

**Contractor:** A non-company employee being paid to perform work in our facility.

**Designations (for industrial trucks):** An alpha designation that identifies trucks allowed to operate within the electrical classification of an area.

- **D:** The D designated units are units similar to the G units except that they are diesel engine powered instead of gasoline engine powered. D units have minimal acceptable safeguards against inherent fire hazards.
- **DS:** The DS designated units are diesel powered units that are provided with additional safeguards to the exhaust, fuel and electrical systems. They may be used in some locations where a D unit may not be considered suitable.
- **DY:** The DY designated units are diesel powered units that have all the safeguards of the DS units and in addition do not have any electrical equipment including the ignition and are equipped with temperature limitation features.
- **E:** The E designated units are electrically powered units that have minimum acceptable safeguards against inherent fire hazards.
- **ES:** The ES designated units are electrically powered units that, in addition to all of the requirements for the E units, are provided with additional safeguards to the electrical system to prevent emission of hazardous sparks and to limit surface temperatures. They may be used in some locations where the use of an E unit may not be considered suitable.
- **EE:** The EE designated units are electrically powered units that have, in addition to all of the requirements for the E and ES units, the electric motors and all other electrical equipment completely enclosed. In certain locations the EE unit may be used where the use of an E and ES unit may not be considered suitable.
- **EX:** The EX designated units are electrically powered units that differ from the E, ES, or EE units in that the electrical fittings and equipment are so designed, constructed and assembled that the units may be used in certain atmospheres containing flammable vapors or dusts.



# FORKLIFT SAFETY

- **G:** The G designated units are gasoline powered units having minimum acceptable safeguards against inherent fire hazards.
- **GS:** The GS designated units are gasoline powered units that are provided with additional safeguards to the exhaust, fuel, and electrical systems. They may be used in some locations where the use of a G unit may not be considered suitable.
- **LP:** The LP designated unit is similar to the G unit except that liquefied petroleum gas is used for fuel instead of gasoline.
- **LPS:** The LPS designated units are liquefied petroleum gas powered units that are provided with additional safeguards to the exhaust, fuel, and electrical systems. They may be used in some locations where the use of an LP unit may not be considered suitable.

**Electrical Classification:** Alpha-Numeric code, defined in the National Electric Code (NEC), that identifies the electric classification of an area based on the atmosphere fire and explosion hazards contained therein:

- **Unclassified:** No unusual hazard.
- **Class I:** Areas in which flammable vapors or gasses are or may be present in concentrations sufficient to produce explosive or ignitable mixtures.
- **Class II:** Areas which are hazardous because of the presence of combustible dust.
- **Class III:** Areas where easily ignitable fibers or flyings are present but not likely to be in suspension in quantities sufficient to produce ignitable mixtures.

**Operator:** The driver of the powered industrial truck

**Powered Industrial Truck:** Fork trucks, tractors, platform lift trucks, motorized hand trucks, and other specialized industrial trucks powered by electric motors or internal combustion engines. This program does not apply to gas operated trucks, farm vehicles, earth moving equipment or over the road hauling vehicles.

**Vendor:** A non-company employee being paid to perform a service in our facility.

## Procedure

### Training

- Only personnel authorized and currently trained will be allowed to operate powered industrial trucks. No one under 18 years of age is allowed to operate a powered industrial truck in the facility.
- Certification: employees authorized and trained to operate powered industrial trucks will be certified (see Appendix A for certification form). The program administrator will keep the current certification documentation. We also may choose to issue each designated operator a license (see Appendix B for an example of our license).
- Training will consist of a combination of formal (classroom) and practical (demonstrations and hands-on) training.
- All hands on training and practice for operator candidates will be properly supervised and conducted in remote and safe areas of our facility to prevent training accidents.

### Training Program Content

The following topics and details should be incorporated into the powered industrial truck training program:

#### *Truck-related topics:*

- Operating instructions, warnings and precautions for the types of truck the operator will be authorized to operate;
- Truck controls and instrumentation: where they are located, what they do, and how they work;
- Engine or motor operation;
- Steering and maneuvering;
- Visibility (including restrictions due to loading);
- Fork and attachment adaptation, operation, and use limitations;
- Vehicle capacity and stability;
- Any vehicle inspection and maintenance that the operator will be required to perform;



# FORKLIFT SAFETY

- Refueling and/or charging and recharging of batteries;
- Operating limitations; and
- Any other operating instructions, warnings or precautions listed in the operator's manual for the types of vehicle that the employee is being trained to operate.

## *Workplace-related topics:*

- Surface conditions where the vehicle will be operated;
- Composition of loads to be carried and how load stability can be maintained;
- Load manipulation, stacking and un-stacking;
- Pedestrian traffic in areas where the vehicle will be operated;
- Narrow aisles and other restricted places where the vehicle will be operated;
- Hazardous (classified) locations where the vehicle will be operated;
- Ramps and other sloped surfaces that could affect the vehicle's stability;
- Closed environments and other areas where insufficient ventilation or poor vehicle maintenance could cause a buildup of carbon monoxide or diesel exhaust; and
- Other unique or potentially hazardous environmental conditions in the workplace that could affect safe operation.

## *Refresher Training and Evaluation* (see Appendix C for a description of the performance evaluation used for our facility):

- Refresher training includes a reevaluation of training effectiveness will be conducted in the following cases:
  - The operator has been observed operating in an unsafe manner;
  - The operator has been involved in an accident or near miss incident;
  - An evaluation has revealed that the operator has not been operating the truck safely;
  - The operator has been assigned to operate a different type of truck;
  - The condition of the workplace changes in a manner that could affect the operation of the truck; and
  - An evaluation of the each powered industrial truck operator will be conducted at least every three years.

## **Truck Selection and Modification**

- All new powered industrial trucks used in our facility will meet requirements of ANSI B56.1-1969, American National Standard for Powered Industrial Trucks, Part II.
- Any proposed alteration and/or modification that could affect truck capacity and/or safe operation must be submitted to the truck manufacturer for approval prior to implementation. Any modification affecting safe truck capacity, operation, and/or maintenance will be noted on updated instruction plates, tags and/or decals as necessary.
- All nameplate and markings for the truck and for attachments will be maintained legible and affixed to the vehicle.
- Atmosphere hazards throughout our facility have been evaluated. Powered industrial trucks are selected based on those hazards and conform to the following table:



# FORKLIFT SAFETY

**SUMMARY TABLE ON USE OF INDUSTRIAL TRUCKS IN VARIOUS LOCATIONS**

Class I Locations		Locations in which flammable gases or vapors are, or may be, present in the air—in quantities sufficient to produce explosive or ignitable mixtures			
Divisions (Nature of hazardous condition)		Groups in Classes (Examples of locations or atmospheres)		Authorized Truck Type	Reference (in No. 505)
Condition exists continuously, intermittently or periodically under normal operating conditions.		A	Acetylene	N/A	201(a)
		B	Hydrogen		
		C	Ethyl ether		
		D	Gasoline, naphtha, alcohols, acetone, lacquer solvent, benzene	Type EX trucks	203(a)
Condition may occur accidentally as due to a puncture of a storage drum.		A	Acetylene	N/A	209(a)
		B	Hydrogen		
		C	Ethyl ether		
		D	Gasoline, naphtha, alcohols, acetone, lacquer solvent, benzene	Type DS, DY, ES, EE, EX, GS and LPS trucks	204(a), (b)
Class II Locations		Locations which are hazardous because of the presence of combustible dust.			
Divisions (Nature of hazardous condition)		Groups in Classes (Examples of locations or atmospheres)		Authorized Truck Type	Reference (in No. 505)
Explosive mixture may be present under normal operating conditions, or where failure of equipment may cause the condition to exist simultaneously with arcing or sparking of electrical equipment, or where dusts of an electrically conducting nature may be present.		E	Metal dust	N/A	202(a), 205(a)
		F	Carbon black coal dust, coke dust	Type EX trucks	
		G	Grain dust, flour dust, starch dust, organic dust		
Explosive mixture not normally present, but where deposits of dust may case heat rise in electrical equipment, or where such deposits may be ignited by arcs or sparks from electrical equipment		E	Metal dust	N/A	209(a)
		F	Carbon black coal dust, coke dust		
		G	Grain dust, flour dust, starch dust, organic dust	Type DS, DY, ES, EE, EX, GS and LPS trucks	206(a), (b)
Class III Locations		Locations where easily ignitable fibers or flyings are present but not likely to be in suspension in quantities sufficient to produce ignitable mixtures.			
Divisions (Nature of hazardous condition)		Groups in Classes (Examples of locations or atmospheres)		Authorized Truck Type	Reference (in No. 505)
Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.		Baled waste, cocoa fiber, cotton, excelsior, hemp, istle, jute, kapok, oakum, sisal, Spanish moss, synthetic fibers, tow.		Type DY, EE and EX trucks	207(a)
Locations in which easily ignitable fibers are stored or handled (except in the process of manufacture).				Type DS, DY, E, ES, EE, EX, GS and LPS trucks	208(a)



# FORKLIFT SAFETY

Unclassified Locations		
Locations not possessing atmospheres as described in Class I, II or III.		
Groups in Classes (Examples of locations or atmospheres)	Authorized Truck Type	Reference (in No. 505)
Piers and wharves inside or outside general storage, general industrial or commercial properties.	Type D, E, G and LP trucks <i>(Trucks conforming to these types may also be used—see subdivisions (c)(2)(x) and (c)(2)(xii))</i>	210.211

## Truck Operation

- You must be trained and authorized to operate each type of powered industrial truck before operation;
- Riders are never allowed;
- Powered Industrial Trucks are different and handle differently than cars! Trucks are much heavier than cars, have poor suspension, have reduced driver visibility and are rear steer;
- You are responsible for obeying all safety rules and preventing injuries while operating a truck; and
- You must report any accidents or damage caused by the truck.

## Pre-Shift Inspection

- You must complete a formal, documented, pre-shift safety inspection before operating the vehicle for the first time on each shift. During this inspection you should examine the following:
  - Horn/warning devices
  - Fluid levels
  - Overhead guard
  - ID plate
  - Fuel system
  - Load backrest
  - Brakes
  - Wheels/tires
  - Proper classification
  - Fluid leaks
  - Operational test
- If you are using the truck after the pre-shift inspection has been completed, you must still do a basic, undocumented inspection to be sure that there are no safety problems;
- **Never operate a truck that is damaged or defective!** Take the truck out of service and report the situation to your supervisor; and
- Check to be sure that trailers are chocked and that trailer floors are safe before entering. Landing gear/jack stands must be capable of supporting the load plus the truck. Be sure that the truck driver does not drive away until you are out of the trailer/truck.

## Operating

- Look the direction that you are traveling, drive for conditions and yield the right of way to pedestrians;
- Keep all body parts within the operating compartment and wear your seat belt;
- Obey all facility, state and local traffic rules and signs;
- Never drive a truck up to a person standing in front of a fixed object;
- Motorized hand trucks must enter elevators and other confined areas with the load engagement end of the truck first;
- While driving, keep in mind:
  - The stability of your load;
  - Your speed (slow down when turning, going up or down ramps or going over rough terrain); and
  - Your height from the ground. If the load obstructs your field of vision you must drive in reverse;



# FORKLIFT SAFETY

- Do not raise the load while you are moving;
- Know the maximum lifting capacity of your truck and the weight of the material you are lifting-**never exceed the rating!**
- Travel with the load/forks as close to the ground as possible (4 in. maximum);
- Cross railroad tracks diagonally. Never park closer than eight feet from the center of railroad tracks;
- Sound your horn and slow down or stop at all cross aisles and intersections-never proceed until you know it is safe to do so;
- Never reach through or into the mast area;
- Maintain a safe distance from the edge of ramps or platforms;
- When traveling on an incline always ascend or descend slowly:
  - A loaded truck should always have the load uphill;
  - An unloaded truck should always have the forks downhill;and
- Always keep at least three truck lengths between trucks.

## Lifting and Placing Loads

- Only stable and safely arranged loads will be lifted;
- To raise a load:
  - Always look up before lifting the forks or a load;
  - Approach the load square-on with the forks centered;
  - Tilt the mast forward and lower the forks to the proper height;
  - Drive into the load and square it to the back rest; and
  - Lift the forks so that the load clears the ground/rack and tilt the load back to keep it engaged;
- Never allow anyone to stand or walk under the forks, either empty or loaded;
- To place a load reverse the above:
  - Square the truck with the space to be used;
  - Raise the load, if necessary, and drive forward into the space;
  - Tilt the load forward; and
  - Lower the load slowly, disengage the forks and back up; and
- Never tilt the mast forward except to pick up or deposit a load. Apply only enough forward or back tilt to pick or deposit the load.

## Dock Safety

- Truck brakes must be set before driving into or onto trailers with a powered industrial truck;
- Inspect all trailers before driving into or onto them;
- All trailers must be chocked at the rear wheels or have a trailer engagement system (Dock Lock) attached. Never enter a trailer that is not secure;
- Fixed jacks may be necessary under the fifth wheel unless the trailer is attached to a tractor;
- Prior to entering a trailer, be sure that the truck driver is aware of your actions;
- A secure dockboard or bridge plate must be used for accessing trailers and rail cars; and
- Positive protection must be provided to prevent rail cars from being moved during loading/unloading operations.



# FORKLIFT SAFETY

## Truck Parking

- Anytime that you are 25 feet from the truck or it is out of your view you must shut it down;
- To shut down a truck do the following:
  - Park in a safe area (not blocking exits, aisles, fire extinguishers, emergency equipment or electrical equipment);
  - Lower the load/forks/load engagement means to the floor and tilt the mast forward;
  - Follow the truck procedure to set the brakes; and
  - Turn the vehicle off.

## Propane Fueling

- Park the vehicle in a safe location away from ignition sources. Be sure that there are no ignition sources present;
- Never try to refill the propane cylinder while the truck is running;
- Propane is a super cold liquid as it is stored. It will cause immediate frost bite. Wear safety glasses and gloves when refueling;
- Close the fuel valve but let the truck run until it is out of gas;
- Turn off the vehicle;
- Replace the cylinder and open the gas valve;
- Return the empty cylinder to the designated storage area;
- Do not attempt to refuel the vehicle unless you are trained and authorized to do so; and
- Do not attempt to refill cylinders unless you have been trained and authorized to do so.

## Gasoline and Diesel Refueling

- Park the vehicle in a safe location away from ignition sources and turn the vehicle off. Be sure that there are no ignition sources present;
- Wear safety glasses while refueling;
- Be sure that you are using the correct fuel;
- Do not overfill the vehicle. Any spilled fuel will be allowed to evaporate or will be wiped up before restarting the engine; and
- Do not attempt to refuel the vehicle unless you are trained and authorized to do so.

## Battery Maintenance

- Battery acid is corrosive! Wear goggles or a face shield with safety glasses, gloves and an apron when watering the battery.
- Batteries being charged produce flammable hydrogen gas, be sure you charge in a well-ventilated area and keep all ignition sources at least 25 feet away;
- Know the location and operation of the closest eye wash station;
- Neutralize any acid spill immediately and report it to a supervisor; and
- Batteries are extremely heavy and difficult to move. Do not attempt to change a battery unless you have been trained and authorized to do so and have the necessary equipment.



# FORKLIFT SAFETY

## Revision History Record:

Revision Number	Section	Revised By	Description
0	NA	NA	Original document.



## **Appendix A**

### **Certified Powered Industrial Truck Operators**



# **FORKLIFT SAFETY**

## **Certified Powered Industrial Truck Operators**

<b><u>OPERATOR NAME</u></b>	<b><u>TRAINING DATE</u></b>	<b><u>EVALUATION DATE</u></b>	<b><u>TRAINER</u></b>
-----------------------------	-----------------------------	-------------------------------	-----------------------

- |     |  |  |  |
|-----|--|--|--|
| 1.  |  |  |  |
| 2.  |  |  |  |
| 3.  |  |  |  |
| 4.  |  |  |  |
| 5.  |  |  |  |
| 6.  |  |  |  |
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| 13. |  |  |  |
| 14. |  |  |  |
| 15. |  |  |  |
| 16. |  |  |  |
| 17. |  |  |  |
| 18. |  |  |  |

**WRITTEN TEST FOR  
POWERED INDUSTRIAL TRUCK OPERATORS**



# FORKLIFT SAFETY

Name \_\_\_\_\_ Date \_\_\_\_\_

Indicate whether the statement is true (T) or false (F)

1.	A lift truck operator must always be able to clearly see where he/she is going regardless of the size or shape of the load.
2.	Forks should always be raised a short distance off the ground when traveling with a load.
3.	Quick starting and stopping are good operating practices.
4.	It is unsafe to carry loads that weigh more than the rated capacity of the truck
5.	A forklift truck turns in exactly the same manner as an automobile
6.	It is the lift truck operator's responsibility to watch out for lights, sprinklers heads, etc., which may cause overhead clearance problems.
7.	A good driver will develop the habit of making fast, sharp turns.
8.	It is okay to carry an extra passenger on your truck if you have him/her sit behind you
9.	You should never leave your truck when the engine is running.
10.	Since housekeeping is not a lift truck operator's responsibility, he/she should just drive right through any oil patch he might find on the floor and not report the hazard.
11.	Carrying loads that weigh more than the capacity of the truck is not permitted.
12.	Forks should be used only for picking up loads - not for pushing, shoving or ramming.
13.	A load should be kept well back against the carriage and properly centered on the forks.
14.	A driver need not worry about the rear end swing of his truck when turning a corner
15.	The same weight can be lifted with the tips of the fork as can be lifted when the forks are positioned all the way under the load.
16.	You may have people stand on the counterweight of your truck so that you can lift a load that weighs more than the rated capacity of the truck.
17.	Always drive forward up steep ramps to avoid spilling your load.
18.	It's okay to have your arm or leg outside the running lines of the truck if there are not obstacles in the work area.
19.	To save your brakes, you should downshift the transmission on your truck whenever possible.
20.	A safe distance under normal conditions is approximately one truck length from the truck ahead
21.	It's okay to smoke when refueling as long as you don't see or smell any fuel leaking.
22.	If the lift mechanism on your truck makes an unusual noise, you should tell your supervisor about it at the end of the day.
23.	Other workers may stand or pass under the elevated portion of your truck to help guide you when you are stacking a load.
24.	Your powered industrial vehicle should be thoroughly inspected at the beginning of the shift.
25.	You should never drive your truck up to anyone standing in front of a bench or other fixed object.

Deductions:



## **Appendix B**

### Powered Industrial Truck Certification Card



# FORKLIFT SAFETY

## Powered Industrial Truck Certification Card

### POWERED INDUSTRIAL TRUCK CERTIFICATION

Company Name

City, State

This card certifies that

is authorized to operate a \_\_\_\_\_ Industrial Truck  
in accordance with OSHA 29 CFR 1910.178

Date of Training:

Effective Until:

Certified By:



### POWERED INDUSTRIAL TRUCK CERTIFICATION

Company Name

City, State

This card certifies that

is authorized to operate a \_\_\_\_\_ Industrial Truck  
in accordance with OSHA 29 CFR 1910.178.

Date of Training:

Effective Until:

Certified By:



### POWERED INDUSTRIAL TRUCK CERTIFICATION

Company Name

Address

This card certifies that

is authorized to operate a \_\_\_\_\_ Industrial Truck  
in accordance with OSHA 29 CFR 1910.178.

Date of Training:

Effective Until:

Certified By:





## **Appendix C**

### Powered Industrial Truck Operator Evaluation



# FORKLIFT SAFETY

## Powered Industrial Truck Operator Evaluation

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Truck:** \_\_\_\_\_

☐ Pass

☒ Fail

NA = Not Applicable

<u>MANEUVEURS</u>	<u>PASS</u>	<u>FAIL</u>	<u>GENERAL SKILLS</u>	<u>PASS</u>	<u>FAIL</u>
1. Identifies all truck controls			1. Looks in direction of travel at all times		
2. Perform shift start truck inspection			2. Keeps body parts within operating compartment		
3. Evaluates load vs. truck capacity			3. Drives consistently at posted (or safe) speed		
4. Evaluates stability of load			4. Slows down when turning		
5. Enter truck using three-point contact			5. Follows all facility traffic regulations and posted traffic signs		
6. Engages driver restraint (belt/harness)			6. Slows down or stops at intersections and in other areas with restricted vision		
7. Verifies operation of controls, checks for fluid under truck			7. Sounds horn when at intersections and when necessary to warn others in operating area		
8. Driving in forward direction			8. Yields right of way to pedestrians and other vehicles		
9. Driving in reverse			9. Provides safe distance between truck and people, the building and equipment		
10. Right turn			10. Drives with forks as close to floor as is safe		
11. Left turn			11. Never lifts/lowers or tilts load while traveling		
12. Pick load			12. Fully engages load with load forks or load engagement device		
13. Lift load			13. Keeps forks up/grade when operating on grades		
14. Drive with load			14. Crosses tracks diagonally whenever possible		
15. Deposit load on floor					
16. Deposit load in rack or to elevated storage					
17. Dock operations					
18. Operation of these attachments:					
19. Park truck safely					
20. Refueling/recharging					



## **Appendix D**

### **PRE-SHIFT FORKLIFT INSPECTION**



# FORKLIFT SAFETY

## PRE-SHIFT FORKLIFT INSPECTION

DATE					
1. Horn					
2. Brakes					
3. Controls					
4. Seat Belt					
5. Back Up Alarm					
6. Lights					
7. Engine Oil level					
8. Radiator Level					
9. Fuel Level					
10. Hydraulic Fluid					
11. Gages/Instruments					
12. Tires/Wheels					
13. Fluid Leaks					
14. Physical Damage					
15. Exhaust System					
16. ID Plate					
17. Battery System					
18. Propane/fuel System					

Truck Name/Number.: \_\_\_\_\_

Inspector: \_\_\_\_\_

☐ Safe

☒ Defects

☐ NA Not Applicable

Comments-Note Truck Name/Number:

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---



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Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_



# RETURN TO WORK POLICY AND PROCEDURES

## Transitional Return to Work Program Policy and Procedures

### Policy Statement

**COMPANY NAME** is committed to working with our employees who are injured on the job. We will make every effort to keep them working in a meaningful and productive manner. By providing transitional temporary work assignments such as modified duty or alternative work, injured/ill employees remain an active and vital part of our company.

### Purpose

The intent is to return industrially injured/ill employees to suitable, gainful employment as soon as medically possible.

### Eligibility

Eligible employees are those who sustain an injury or illness while performing their regular job duties. As a result, they have temporary restrictions or limitations provided by a physician. The physician must provide a clear and complete written description of the restrictions.

### Participation

If an appropriate transitional temporary work assignment is identified, participation is mandatory for the duration of the work restrictions, the availability of the assignment or the maximum amount of time allowable in the program.

The employee will receive a written offer of available modified duty or alternate work. Once the offer is extended, the employee must respond or appear at the designated site within 72 hours. Failure to accept a physician-approved, transitional temporary work assignment may result in the loss of indemnity benefits.

### Duration

Transitional temporary work assignments such as modified duty or alternate work are limited and should normally not exceed 90 days or the amount of time that the doctor determines is medically necessary, whichever occurs first. The length of a transitional temporary work assignment, however, may be shorter if the restrictions can no longer be accommodated.

Transitional temporary work assignments end in 90 days or when the doctor determines that it is no longer necessary or appropriate due to the employee's recovery, medical condition, or release to return to work full duty. The employee no longer qualifies for this program if their medical condition becomes "permanent", they are released to regular duties without restrictions or they have been participating in the program for the maximum of 90- days, whichever occurs first.

### Communication

All existing employees will be informed of our commitment to Return to Work and the program put in place. Information about this program will also be presented to new hires during the orientation process.

### Responsibilities

#### Injured / Ill Employee:

- Report the injury / illness to the supervisor immediately and get medical treatment as directed.
- Obtain a work status report from an approved physician and give it to the supervisor after each medical appointment.
- If recommended by a physician, participate in transitional temporary work assignments when available.



# RETURN TO WORK POLICY AND PROCEDURES

- Participation in the program is expected. Non-cooperation or non-compliance may affect other disability benefits.
- While working the transitional temporary work assignment, the employee will comply with all company policies and procedures, with the exception of approved time-off for medical or workers' compensation related appointments.

## Direct Supervisors / Managers:

- Upon knowledge of an industrial injury/illness, direct employee to medical treatment. Inform HR or appropriate filing parties.
- Obtain a valid work status report, which indicates that an employee can return to work with or without restrictions.
- If work restrictions are indicated by the physician, coordinate with other members of management, if necessary, to identify an appropriate transitional temporary work assignment in a timely manner.
- Maintain communication with the injured / ill employee throughout the recovery period.
- Obtain work status summaries from the employee each time he/she goes to the physician and forward a copy to workers compensation claims examiner.
- Encourage employees to schedule medical appointments and/or physical therapy appointments before or after work. If they are unable to do so, allow them the time to seek the necessary treatment in order to recover.
- Obtain a release to return to work before returning the employee to their regular job.

## **Administrative Guidelines**

**Hours Worked:** Hours of work may not exceed the number prescribed by the physician. They may not exceed the number of hours the employee worked, on average, prior the injury. In any event, total hours worked may not exceed eight (8) hours a day or forty (40) hours a week. Overtime is not allowed.

**Compensation:** The employee will not qualify for workers' compensation disability payments if they are provided with a transitional temporary work assignment that is offered for the same number of hours worked and same hourly wage. If the employee is offered work hours and/or an hourly wage less than what was received at the time of injury, the injured employee may be entitled to supplemental workers' compensation disability payments.

The current leave policies and employee benefit programs will remain in place while the employee is in the transitional temporary work assignment.

Nothing in this Policy entitles an employee to a transitional temporary work assignment. These assignments are temporary, they are not considered permanent and such assignments do not create an entitlement to the position to which the employee is temporarily assigned.



# RETURN TO WORK POLICY AND PROCEDURES

## Doctor Notification Letter

12/30/16

Dear Doctor:

You are treating a valuable employee of our company. We have developed an Early Return-to-Work Program to help in the recovery and rehabilitation of this individual and to assist your patient in the transition to a return to full duty employment.

We would like to work with you and your patient to find a transitional position that will assure your patient's safe return to work. You have our assurance that we will fully respect the limitations you set forth for this patient. **You are invited to visit our company to actively participate in the approval of suitable transitional work for this employee, if you so desire.** In many instances, employees want to go back to work as soon as medically appropriate to aid in the recovery process.

We ask that you complete the bottom of this form plus the attached **Physical Capabilities Worksheet** to assist us in fully understanding your patient's limitations and restrictions. Enclosed you also will find a **Job Demands Analysis** of the employee's duties prior to injury.

This information is required for our workers' compensation carrier/ State Insurance Fund. The Health Insurance Portability and Accountability Act (HIPAA) Privacy Rules allow disclosure of a patient's protected health information to workers' compensation insurers, without patient authorization, in compliance with State Workers' Compensation Law.

ERTW **Physician's Response**

Patient Name \_\_\_\_\_

Claim No. \_\_\_\_\_

Injury Date \_\_\_\_\_

Date of Exam \_\_\_\_\_

Based upon my examination (history, physical evaluation and tests, if any), it is the opinion of this physician that the patient:

☐ May resume full duty immediately.

☐ Can return to full duty on: \_\_\_\_\_

☐ May resume work immediately  
with the following limitations:

☐ Should return for treatment on: \_\_\_\_\_

**Comments**

\_\_\_\_\_  
Signature of examining physician

\_\_\_\_\_  
Date

**Dist:**



# RETURN TO WORK POLICY AND PROCEDURES

Date:

[Employee Name] [Employee  
Address]

Claim #:

Date of Injury:

**Certified Mail**

**Return Receipt Requested Certified**

**Mail#:**

Dear [Employee First Name]:

Your treating physician has released you to modified work. We have identified a temporary position for you, which your physician states you will be able to perform. Please refer to the attached job task list.

The job is: See Attached. You will receive \$ \_\_\_\_\_ per hour.

This modified duty job will begin at [Report Time] on [Report Date]. Please report for work at this time and date.

Your work schedule is as follows:

Work Schedule:

Report Time:

Report to:

Phone:

Location:

We look forward to seeing you and wish you a continued speedy recovery.

Sincerely,

\_\_\_\_\_  
Employer Signature

Enc.: Signed copy of Letter to Treating Provider with signature dated \_\_\_\_\_.

Distribution: [Employee Name]

[Attorney Name]



# RETURN TO WORK POLICY AND PROCEDURES

Date:

[Employee Name]

[Employee  
Address]

Claim #:

Date of Injury:

Dear [Employee First Name]:

Your treating physician has released you to modified work. We have identified a temporary position for you, which your physician states you will be able to perform. Please refer to the attached job task list.

The job is: See Attached. You will receive \$ \_\_\_\_\_ per hour. This modified duty job will begin at [Time to Report] on [Date]. Please report for work at this time and date.

Your work schedule is as follows:

Work Schedule:      Report Time:

Report to:

Phone:

Location:

We wish you a continued recovery.

Sincerely,

\_\_\_\_\_  
Employer Signature

Enc.: Signed copy of Letter to Treating Provider with signature dated \_\_\_\_\_.

-----  
**Certificate of Service**

I \_\_\_\_\_ hereby certify that I hand-delivered the above job offer  
to \_\_\_\_\_ on \_\_\_\_\_.

\_\_\_\_\_  
Employer's Signature

\_\_\_\_\_  
Date



# WORKPLACE VIOLENCE PREVENTION

## POLICY

# Workplace Violence Prevention

Location:  
Effective Date: [Effective\_Date]  
Revision Number:1

---

**COMPANY NAME**

### Purpose

**COMPANY NAME** does not tolerate workplace violence. We define workplace violence as actions or words that endanger or harm another employee or result in other employee reasonably believing to be in danger. Such actions include but are not limited to the following:

- Verbal or physical harassment
- Verbal or physical threats
- Assaults or other violence
- Any other behavior that causes others to feel unsafe (e.g., bullying, sexual harassment)

### Scope

Company policy requires an immediate response to all reports of violence. All threatening Incidents will be investigated and documented by the employee relations department. If appropriate, the company may provide counseling services or referrals for employees.

The following disciplinary actions may also be taken:

- Oral reprimand
- Written reprimand
- Suspension
- Termination

### Responsibility

It is the responsibility of all employees to report all threatening behavior to management immediately. The goal of this policy is to promote the safety and well-being of all people in our workplace. All incidents are to be reported within the first 24 hours.

Management, supervisors and all safety personnel are responsible for the observation of personnel and identification of potential workplace violence exposures. All matters reported and/or identified are to be fully investigated. Findings will be presented to management and an action plan developed to minimize and eliminate the potential threat.

### Procedures

Evaluation of Security Procedures

- A physical security survey will be conducted once a year on [Effective\_Date]. As our company continues to grow and expand, so does potential violence exposure. Reassess all facets of the work environment to include secure entrances, public access, restroom facilities, parking lots, workstations and closed-circuit surveillance cameras.



# WORKPLACE VIOLENCE PREVENTION

## Incident Response Team

- The following individuals are named in the event to respond to a potential threat or live situation. The Incident Response Team will coordinate all facets of the response including the initial response in emergency situations, contacting of local authorities and intervention of the subject and victim.

[Insert name of individual #1 – phone number]

[Insert name of individual #2 – phone number]

[Insert name of individual #3 – phone number]

[Insert name of individual #4 – phone number]

[Insert name of individual #5 – phone number]

## Training of Management and Employee Groups

- Initial training to management and employees will consist of the introduction of this policy, scope and responsibilities. Review reporting procedures and expectations with employees. Management will provide incident forms and detailed procedures for front-line supervisors to follow. Retraining will be conducted annually on [Effective\_Date]

## Evaluation and Intervention

- In order to assess this risk, the following suggested questions should be inquired of individuals familiar with the offender's behavior, both prior to and after any alleged threat or action. Refer to Appendix A for the Individual Assessment Form.

## Risk Assessment

Note: Perpetrators of workplace violence can be both men and women; however, for the purposes of the questions to be asked, he is used to refer to the offender. They include the following:

- Why has the offender threatened, made comments that have been perceived by others as threatening, or has taken this action at this particular time? What is happening in his own life that has prompted this?
- What has been said to others (e.g., friends, colleagues, coworkers) regarding what is troubling him?
- How does the offender view himself in relation to everyone else?
- Does he feel he has been wronged in some way?
- Does he accept responsibility for his own actions?
- How does the offender cope with disappointment, loss or failure?
- Does he blame others for his failures?
- How does the offender interact with coworkers?
- Does he feel the company is treating him fairly?
- Does he have problems with supervisors or management?
- Is he concerned with job practices and responsibilities?
- Has he received unfavorable performance reviews or been reprimanded by management?
- Is he experiencing personal problems such as divorce, death in the family, health problems or other personal losses or issues?
- Is he experiencing financial problems, high personal debt or bankruptcy?
- Is there evidence of substance abuse or mental illness/depression?
- Has he shown an interest in violence through movies, games, books or magazines?
- Is he preoccupied with violent themes, interested in publicized violent events, or fascinated with weapons?
- Has the offender identified a specific target and communicated with others his thoughts or plans for violence?



# WORKPLACE VIOLENCE PREVENTION

- Is he obsessed with others or engaged in any stalking or surveillance activity?
- Has the offender spoken of homicide or suicide?
- Does he have a past criminal history or history of past violent behavior?
- Does the offender have a plan for what he would do?
- Does the plan make sense? Is it reasonable and is it specific?
- Does the offender have the means, knowledge and wherewithal, to carry out his plan?

## **Assessment Review and Action**

Upon completion of the assessment, review results with Management. Options are to be considered in terms of intervention. If a threat is imminent, local authorities should be immediately contacted.

Consider job rotation, change in reporting manager or other work environment change to reduce or eliminate the source of conflict.

Full documentation of the perceived or real threat must be well maintained. If an incident occurs, complete the appropriate job site investigation and witness statement forms.

## **Communication**

Communicate course of action with all Management, victim and subject in question. Clearly define the course of action this policy lays forth in terms of discipline.



# WORKPLACE VIOLENCE PREVENTION

Workplace Violence Prevention Policy  
Appendix A

## Individual Assessment

Date of assessment: \_\_\_\_\_

Individual's name: \_\_\_\_\_

Supervisor: \_\_\_\_\_

1. Why has the offender threatened, made comments that have been perceived by others as threatening, or taken this action at this particular time? What is happening in his or her own life that has prompted this?
  
  
  
  
  
  
  
  
  
  
2. What has been said to others (e.g., friends, colleagues, coworkers) regarding what is troubling him?
  
  
  
  
  
  
  
  
  
  
3. How does the offender view himself in relation to everyone else?
  
  
  
  
  
  
  
  
  
  
4. Does he feel he has been wronged in some way?
  
  
  
  
  
  
  
  
  
  
5. Does he accept responsibility for his own actions?
  
  
  
  
  
  
  
  
  
  
6. How does the offender cope with disappointment, loss or failure?
  
  
  
  
  
  
  
  
  
  
7. Does he blame others for his failures?



# WORKPLACE VIOLENCE PREVENTION

8. How does the offender interact with coworkers?

9. Does he feel the company is treating him fairly?

10. Does he have problems with supervisors or management?

11. Is he concerned with job practices and responsibilities?

12. Has he received unfavorable performance reviews or been reprimanded by management?

13. Is he experiencing personal problems such as divorce, death in the family, health problems, or other personal losses or issues?

14. Is he experiencing financial problems, high personal debt or bankruptcy?

15. Is there evidence of substance abuse or mental illness/depression?

16. Has he shown an interest in violence through movies, games, books or magazines?

17. Is he preoccupied with violent themes; interested in publicized violent events; or fascinated with and/or recently acquired weapons?



# WORKPLACE VIOLENCE PREVENTION

18. Has the offender identified a specific target and communicated with others his thoughts or plans for violence?

19. Is he obsessed with others or engaged in any stalking or surveillance activity?

20. Has the offender spoken of homicide or suicide?

21. Does he have a past criminal history or history of past violent behavior?

22. Does the offender have a plan for what he would do?

23. Does the plan make sense, is it reasonable and is it specific?

24. Does the offender have the means, knowledge and wherewithal to carry out his plan?

Form completed by: \_\_\_\_\_

Other individuals present: \_\_\_\_\_

Completed on: \_\_\_\_\_

Time: \_\_\_\_\_

Signature: \_\_\_\_\_



**SECTION D**

**OSHA INFORMATION**



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40' Hk'kntg"vq"r tqxkf g'hcnlr tqvgevkp"ht"go r m{ ggu"gzr qugf "vq"cj gki j v" i tgevgf "vj cp"ulz "hggv."r wtuwcpv"vq"4; 0E0H0T0"E"3; 480/23"\*d+\*n="

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50Á Hkntg"vq"r tqxkf g'o cej kpg"i wctf lpi ."r wtuwcpv"vq"4; 'E0H0T0E" 3; 32043"4\*c+\*n+"cpf "c+\*5+\*k="

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60Á Hkntg"vq"vtclp"go r m{ ggu."r wtuwcpv"vq"4; 'E0H0T0E"3; 48043\*d+\*4="

70Á Hkni'wtg"vq"r tqxkf g"j gcf "r tqvgevkp"vq"r tqvgev'ci clpuv'hcnkpi " qdlgeu."r wtuwcpv"vq"4; 'E0H0T0E"3; 48022\*c="

"

80Á Hkntg"vq"eqo r n{ "y kj "tgeqtf nggr lpi "tgs wkt go gpw"QUI C" Nqi +."r wtuwcpv"vq"4; 'E0H0T0E"K; 2604\*c="

"

90Á Xlqrcvkpu"qh'I gpgtcnF w{ 'Encwug="

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: 0Á Hkntg"vq"r tqr gtn{ "r tqvgev'ci clpuv'gzevcvkp"cpf "tgpej "j c| ctf u." r wtuwcpv"vq"4; 'E0H0T0EE"3; 480873"cpf"3; 480740"

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320Á Hkntg"vq"i wctf "hqq"t"cpf "y cm'qr gplki u."r wtuwcpv"vq"4; 'E0H0T0E" 3; 32045\*c+\*n="

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330' Hkntg"vq"eqo r n{ "y kj "menqwhci qwu."r wtuwcpv"vq"4; 'E0H0T0E" 3; 32069\*c+\*6+\*k="

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- 340Á Hckwtg'qh'I HEKu'v'gputg'uchg'y kłpi 'f guki p'cpf 'r tqvgev'kp.'r wtuwcpv'v'q'4; "ECHO0È'3; 480626\*d+\*n="
- 350Á Hckwtg'v'eqo r n' 'y kj 'y kłpi 'o g'j qf u.'r wtuwcpv'v'q'4; 'ECHO0È'3; 320627\*d+\*3+cpf "i +\*3+\*k="
- 360Á Hckwtg'v'r tqxkf g'hqt 'tgi wnt 'łpur gev'kpu'd { 'c'eqo r gvgpv'r gtupp.'r wtuwcpv'v'q'4; 'ECHO0È'n; 48042\*d+\*4="
- 370 Hckwtg'v'j cxg'O UF U'uj ggu.'r wtuwcpv'v'q'4; 'ECHO0È'3; 320K422\*i +\*n="
- 380Á Hckl'wtg'v'r tqr gtn' 'wug'rcf fgtu.'r wtuwcpv'v'q'4; 'ECHO0È'3; 4808275\*d+\*n="
- 390Á Hckwtg'v'j cxg'qt 'wug'r gtupcn'r tqvgev'xg'gs vkr o gpv.'r wtuwcpv'v'q'4; "ECHO0È'3; K20854\*c="
- 3: 0Á Hckwtg'v'j cxg'c'hm'r tqvgev'kpp'v'cl'kłpi 'r tqi tco .'r wtuwcpv'v'q'4; 'ECHO0È'3; 480725\*c+\*3="
- 3: 0Á Hckwtg'v'j cxg'tgur kcvqt { 'r tqvgev'kp.'r wtuwcpv'v'q'4; 'ECHO0È'K; 320856\*e+\*n="cpf "
- 420Á Hckwtg'v'etgev'cpf 'o cl'vcl'p'cp'ceekf gpv'r t'xgp'kpp'r tqi tco .'r wtuwcpv'v'q'4; 'ECHO0È'3; 48042\*d+\*3+0'

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- 30Á C"83'08'o kłkpp'r gpcn' 'tgi ctf kpi 'xkqrv'kpu'qh'y g'o cej kpg'i wctf kpi "ucpf ctf 0'
- 40Á A U939.222'r tqr qugf 'r gpcn' 'hqt 'xkqrv'kpu'qh't'geqtf n'gr kpi 'cpf 'q'j gt'ucpf ctf u0'
- 50Á A &852.222'xkqrv'kpp'tgi ctf kpi 'etcp'g'j cpf r kpi 0'
- 60Á A &682.222'xkqrv'kpp'hqt 'hm'r tqvgev'kpp0'
- 70Á C"&646.222'ekcv'kpp'hqt 'hm'r tqvgev'kpp0'
- 80' C"U5: 9.222'ekcv'kpp'hqt 'y qqf y qtn'kpi 'łpxqrv'kpi 'y qqf y qtn'kpi 'o cej kpgt { 0'
- 90Á C"&5: 5.722'ekcv'kpp'hqt 'hm'r tqvgev'kpp0'
- : 0Á C"U572.222'ekcv'kpp'hqt 'rqen'q'włci qw0'
- ; 0Á C"&55; .222'ekcv'kpp'hqt 'etcp'g'j cpf r kpi 0'
- 320' C"U4; 8.222'ekcv'kpp'łpxqrv'kpi 'hm'r tqvgev'kpp0'



# STANDARD CITED FOR ROOFING, SIDING, AND SHEET METAL WORK (SIC 1761)

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3; 482673"	6: 8"	437"	498; 2; 02: " I gpgtcn'Tgs wkt go gpw'hqt'cmv\ r gu'qh'Uechhqrf kpi "	
3; 483275"	533"	464"	35; 88502" Ncf fgtu"	
3; 482725"	48; "	469"	; ; 99; 05" Hcm'Rtqvgevkqp"Vtckpkpi 'Tgs wkt go gpw"	
3; 482724"	447"	349"	48337602: " Hcm'Rtqvgevkqp"U{ uvgu u'Etkgtk"( 'Rtcevegu"	
3; 482242"	382"	358"	9; 79702" Eqputwevkqp."I gpgtcn'Uchgv\ "( 'J gcmj 'Rtqxkukpu"	
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3; 482243"	96"	96"	65; 3402" Eqputwevkqp."Uchgv\ 'Vtckpkpi "( 'Gf wecvkqp"	
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3; 482675"	74"	67"	5746702" Ocpwcm\ 'Rtqr gmrf 'O qdkrg'Ncf fgt'Ucpf u\ ( 'Uechhqrf u"	
3; 482627"	6; "	65"	9; 2502" Grgv0Y ktpi 'O gy qf u.'Eqo r qpwpv\ ( 'Gs wkr .I gp)ri'Wug"	
3; 483282"	5: "	5: "	799702" Uckty c{u\ ( 'Ncf fgtu."Vtckpkpi 'Tgs wkt go gpw"	
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3; 482372"	47"	44"	46: 202" Hktg'Rtqvgevkqp"	
3; 482638"	46"	45"	847702" Grgvtecn'Uchgv\ /Tgrvvgf 'q qtniRtcevegu."I gp'Ts wu"	
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3; 482247"	38"	36"	787202" Eqputwevkqp."J qwugnggr kpi "	
3; 482272"	37"	35"	664702" O gf lecn'Ugtxlegu\ ( 'Hktu\ Ckf "	
3; 482824"	37"	35"	992402" O cvgtkn'J cpf r kpi 'Gs wkr o gpv"	
3; 48227; "	36"	32"	337202" J c  ctf 'Eqo o wplecvkqp"	
3; 482375"	36"	34"	: ; 5702" Nls wghgf 'Rgtqrqwo 'I cu"	
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3; 482522"	32"	32"	64; 202" J cpf "( 'Rqy gt'Vqqn."I gpgtcn'Tgs wkt go gpw"	
3; 482526"	32"	9"	524702" Y qqf y qtnkpi 'Vqqn"	
3; 48224: "	: "	: "	584202" Eqputwevkqp."Rgtuqpcn'Rtqvgevkxg'Gs wkr o gpv"	



# STANDARD CITED FOR ROOFING, SIDING, AND SHEET METAL WORK (SIC 1761)

Standard	#Cited	#Insp.	\$Penalty	Description
3; 482529"	: "	6"	"424022"	O gej cplecnRqy gt/Vtcpuo kuukqp'Cr r ctcwu"
3; 482572"	: "	: "	89: 2022"	I cu'Y grf kpi '( 'Ewwkpi "
3; 25223; "	9"	9"	4622022"	"
3; 482474"	9"	9"	55: 2022"	F kur qucn'qh'Y cuvg'O cvgtkcnu"
3; 482923"	8"	8"	4925072"	EqpetgvgIO cuqpt{ . 'I gpgtcnTgs wkt go gpw"
3; 26222: "	7"	7"	4422022"	Hcwrk{ IO wnr ng'J qur kcrk cvkqp'Ceekf gpv'Tgr qtv "
3; 322356"	7"	4"	"972022"	Tgur ktcvqt { 'Rtqvgevkqp"
3; 482327"	7"	7"	6222022"	Uchgv{ 'P gwu"
3; 482473"	7"	4"	4367022"	Tki i kpi 'Gs wkr o gpv'Hqt'O cvgtkcnJ cpf rkp i "
3; 323242"	6"	3"	""2022"	Ceeuu'q'go r m{ ggu'gxr quwtg'cpf 'o gf kcnltgeqtf u"
3; 482: 74"	6"	5"	"784022"	F go qrkakqp.'Ej wgu"
3; 322527"	5"	4"	"747022"	Grgextkcn'Y ktpi 'O gy qf u.'Eqo r qpwpv{ 'Gs wkr o gpv"
3; 482256"	5"	4"	""2022"	Eqputwevkqp.'O gcpu'qh'Gi tguu"
3; 482373"	5"	5"	""2022"	Hktg'Rtngxpvkqp"
3; 482524"	5"	5"	3347022"	Rqy gt'Qr gtcvgf 'J cpf 'Vqqnu"
3; 472525"	5"	5"	3647022"	Cdtcukxg'Y j ggu{ 'Vqqnu"
3; 262227"	4"	4	""2022"	CppwcnUwo o ct{ . 'Qeewr cvkpcn'kplwtkgu{ 'Kpuguu"
3; 482273"	4"	4"	37: 4022"	Ucpkcvkqp"
3; 482276"	4"	3"	""2022"	P qpkqpk kpi 'Tcf kvkqp"
3; 482284"	4"	3"	"472022"	Ngcf "
3; 482423"	4"	3"	3272022"	Uki pcnpi "
3; 482722"	4"	4"	"822022"	Hqqt IY cm'Qr gplpi u.'I wctf tcku.'J cpf tcku{ 'Eqxgtu"
3; 482972"	4"	4"	5722022"	UygnGtgevkqp.'Hqqt kpi 'Tgs wkt go gpw"
3; 482: 72"	4"	4"	7; 97022"	F go qrkakqp.'Rtgr ctcvqt { 'Qr gtcvkpu"
3; 322525"	3"	3"	"447022"	Grgextkcn'U'uguo u'F guki p.'I gpgtcnTgs wkt go gpw"
3; 322555"	3"	3"	3722022"	Grgextkcn'Ugrgevkqp{ 'Wug'qh'Y qtniRtceveg u"
3; 482246"	3"	3"	""2022"	Eqputwevkqp.'Hktg'Rtqvgevkqp{ 'Rtngxpvkqp"
3; 482257"	3"	3"	""2022"	Eqputwevkqp0Go r m{ gg'Go gti gpe{ 'Cevkqp'Rrcpu"
3; 482325"	3"	3"	"472022"	Tgur ktcvqt { 'Rtqvgevkqp"
3; 482326"	3"	3"	"747022"	Uchgv{ 'Dgnu.'Nkhnkpgu{ 'Ncp{ ctf u" "
3; 482422"	3"	3"	""2022"	Ceekf gpv'Rtngxpvkqp'Uki pu{ 'Vci u"
3; 482472"	3"	3"	""2022"	O cvgtkcnJ cpf rkp i . 'I gpgtcnTgs wkt go gpw"
3; 482654"	3"	3"	""2022"	Grgextkcn'Gpxkqpo gpwcnF gvgtkctcvkqp'qh'Gs wkr O'
3; 482774"	3"	3"	"559022"	O cvgtkcnJ qknu.'RgtuqppgnJ qknu{ 'Grgxcvqtu"
3; 482776"	3"	3"	3272022"	Qxgtj gcf 'J qknu"
3; 482778"	3"	3"	"822022"	Cgtkcn'Nknu"
3; 482822"	3"	3"	3722022"	Gs wkr o gpv"
3; 482: 77"	3"	3"	"722022"	O cpwcnTgo qxcn'qh'Hqqtu"



# CONSTRUCTION FOCUSED INSPECTIONS INITIATIVE

J C P F Q W W H Q T E Q P V T C E V Q T U C P F G O R N Q I G G U

Vj g'i qcn'qh'Hqewugf 'Kpur gev'kpu'ku'v'q'tgf weg'kplwtkgu.'kmpguu'cpf 'hcvrkkgu'd{'eqpegpvtckpi 'QUJ C"  
gphqtego gpv'qp'yj qug'r tqlgeu'yj cv'f q'pqv'j cxg'ghgevkxg'uchgv' 'cpf 'j gcnj 'r tqi tco ulr ncp'cpf 'hko kkpj "  
QUJ C)'u'ko g'ur gpv'qp'r tqlgeu'yj kj 'ghgevkxg'r tqi tco ulr ncpu0

Vq's wrkh' 'hqt'c'Hqewugf 'Kpur gev'kqp.'y'j g'r tqlgev'uchgv' 'cpf 'j gcnj 'r tqi tco l' ncp'y kndg'tgxky gf 'cpf 'c"  
y cmictqwpf 'y kndg'o cf g'qh'yj g'lqdukg'v'xgtkh' 'y cv'yj g'r tqi tco l' ncp'ku'dgkpi 'hwn' 'ko r ngo gpvgf 0'

F wtkpi 'y'j g'y cmictqwpf 'y'j g'eqo r ncp'eg'qh'hegt'y kndh'qewu'qp'yj g'hqwt'rgcf kpi 'j c| ctf u'yj cv'ecwug"  
; 2' 'qh'f gcj u'cpf 'kplwtkgu'k'eqpwtwev'kqp0'Vj g'rgcf kpi 'j c| ctf u'ctg<

ÉÁ hcmu.'\*g0 0'hmqtu.'r nvhqto u.'tqqhu+

ÉÁ utwenid{.'\*g0 0'hcmkpi 'qdlgeu.'xgj kengu-

ÉÁ ecw'j v'kpldgwy ggp'\*g0 0'ecxg/kpu.'wpi wctf gf 'o cej kpgt{.'gs wkr o gpw"

ÉÁ grgestlecn'\*g0 0'qxgtj gcf 'r qy gt'kpgu.'r qy gt'vqqu'cpf 'eqtf u.'qwwgu.'vgo r qtct{ "  
y kkpj 0'

Vj g'eqo r ncp'eg'qh'hegt'y kndh'pvgtxky "go r m{ ggu'v'f gvgto kpg'yj gk'hqpy rgi g'qh'yj g'uchgv' 'cpf 'j gcnj "  
r tqi tco l' ncp.'y'j gk'cy ctgpgu'qh'r qvgpv'cn'lqdukg'j c| ctf u.'y'j gk'v'ckkpi 'kp'j c| ctf 'tgeqi pkkqp'cpf 'y'j gk "  
wpgtucpf kpi 'qh'cr r ncdng'QUJ C'ucpf ctf u0

Ki'yj g'r tqlgev'uchgv' 'cpf 'j gcnj 'r tqi tco l' ncp'ku'hqwpf 'v'q'dg'ghgevkxgn' 'ko r ngo gpvgf 'y'j g'eqo r ncp'eg"  
qh'hegt'y kndg'to kpcg'yj g'kpur gev'kqp0

Ki'yj g'r tqlgev'f qgu'pqv's wrkh' 'hqt'c'Hqewugf 'Kpur gev'kqp.'y'j g'eqo r ncp'eg'qh'hegt'y knd'eqpf wev'c"  
eqo r tgj gpukxg'kpur gev'kqp'qh'yj g'gpv'k'g'r tqlgev0

Ki'{'qw'j cxg'cp{'s wgu'kpu'qt'eqpegtpu'tgrv'gf 'v'q'yj g'kpur gev'kqp'qt'eqpf kkp'u'qp'yj g'r tqlgev'{'qw'ctg"  
gpeqwtci gf 'v'q'dtkpi 'y'j go 'v'q'yj g'ko o gf kcv'cwgpv'kqp'qh'yj g'eqo r ncp'eg'qh'hegt'qt'ecm'yj g'ctgc'qh'hegt'"  
cv'\_\_\_\_\_a"

aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa'ku's wrkh'gf 'cu'c'HQEWUGF 'RTQIGEV0

*Project / Site*

*Date*

*Area Director*



# CONSTRUCTION FOCUSED INSPECTIONS INITIATIVE

Vj ku'i wkf grkpg'ku'v'cuukv'y g'r tqlguukqpcn'wf i o gpv'qh'y g'eqo r rkepeg'qh'leg'v'f gvgto kpg'h'h'ku'cp" ghgevkxg'r tqlgev'r rcp."v'q's wcnh' hqt'c' Hqewugf "Kpur gevqk0"

RTQLGEV"UCHGV' 'CP F'J GCNVJ 'EQQT'K'K'CVKQP =ctg'y gtg'r tqegf wtgu'lp'r meg'd' 'y g'i gpgtcn' eqpvtcevqt."r tko g'eqpvtcevqt"qt"qy gt'wej "gpvk' 'v'g'puwtg'y cv'cm'go r m'gtu'r tqxkf g'cf gs wcvg" r tqvgevqk'hqt'y gk't'go r m'g'guA'

KU'VJ GT'G'C'F GUK' P'CVGF 'EQO RGVGP V'RGTUQP 't'gur qpukdrg'hqt'y g'ko r ngo gpvcvkp'cpf " o qpkkqtkpi 'qh'y g'r tqlgev'uchgv' 'cpf' j' gcnj 'r rcp'y j q'ku'ecr cdrg'qh'kf gpvk' kpi 'gz'kukpi 'cpf' r tgf levcdr" j c' ctf u'cpf' j cu'cwj qtk' 'v'cng'r tqo r v'eqttgevkxg'o gcuwtguA'

**PROJECT SAFETY AND HEALTH PROGRAM/PLAN** y cv'eqo r rgu'y kj 'y g'3; 48"Uwdr ctv'E'cpf " cff tguugu."dcugf "wr qp'y g'uk' g'cpf' eqo r rnzkv' 'qh'y g'r tqlgev'y g'hqmy kpi <

30A Rtqlgev'Uchgv' 'Cpcn' uku'cv'lpkkcvkp'cpf' cv'etk'ecn'uci gu'y cv'f guetkdg'y g'ugs wpeg." r tqegf wtgu."cpf' t'gur qpukdrg'kp' k'kf wcn'hqt'uchg'eqpvtwvkp0'

40A K'gpvk'ecvkp'qh'y qtm'cevk'k'gu'tgs wtkpi 'r rcpkpi . 'f guki p. 'k'pur gevqk'qt'uw'gtxkukp'd' 'cp" gpi kpggt."eqo r gvgp'r gtuqp'qt"qy gt'r tqlguukqpcn'

50A Gxcnvcvkp'lo qpkkqtkpi 'qh'u'wdeqpvtcevqtu'v'f gvgto kpg'eqphqto cpeg'y kj 'y g'Rtqlgev'Rrcp0'

60A Vj g'Rtqlgev'Rrcp'o c' 'kpen'f g."qt'dg'w'k'kf gf'd' 'u'wdeqpvtcevqtu0'

70A Uw'gtxku't'cpf' go r m'g'gg'v'ckkpi 'cee'qtf kpi 'v'q'y g'Rtqlgev'Rrcp'kpen'f kpi 't'geqi pkkqp.'tgr qt'vpi " cp'cxqkf cpeg'qh'j c' ctf u."cpf' cr' r r'ecdr'ucpf ctf u0'

80A Rtqegf wtgu'hqt'eqpvtqmkpi 'j c' ctf qwu'qr gtcvkpu'wej "cu'et'cp'gu.'uech'qrf kpi . 't'gpej gu.'eqph'kpgf " ur cegu."j qv'y qtm'g'zr m'ukx'gu."j c' ctf qwu'o cv'g'k'cnu.'h'gcf kpi 'gf i gu.'gve0'

90' Fqewo gpvcvkp'qh'v'ckkpi . 'r gto ku'j c' ctf 'tgr qt'v."k'pur gevqkpu.'wpe'qttgevgf'j c' ctf u.'k'p'kf gpw' c' ctf u.'p'gct'o k'ugu0'

: 0A Go r m'g'gg'lp'qx'k'go gpv'lp'j c' ctf <'cpcn' uku.'r t'gx'gpvkp.'cxqkf cpeg.'eqttgevkp'cpf' t'gr qt'vpi 0'

; 0A Rtqlgev'go gti gpe' 't'gur qpug'r rcp0'

Vj g'y cm'ctqwpf' 'cpf' 'k'p'v'gtx'kgy u'eqph'kto gf 'y cv'y g'Rrcp'j cu'dggp'ko r ngo gpvgf." kpen'f kpi <

30' Vj g'hqwt'h'gcf kpi 'j c' ctf u'ctg'c'ff tguugf <'h'cmu.'u'twem'id' . 'ecwi j v'lp'ldgy ggp.'g'nevt'k'ecn'

40A J c' ctf u'ctg'k'f gpvk'k'gf' 'cpf' 'eqttgevgf' y kj 'r t'gx'gpvcvkxg'o gcuwtgu'k'puk'w'wgf 'k'p'c'v'ko gn' " o c'ppgt0'

50A Go r m'g'ggu'cpf' 'uw'gtxku'tu'ctg'np'qy r'gf i g'cdrg'qh'y g'r tqlgev'uchgv' 'cpf' j' gcnj 'r rcp." cxqkf cpeg'qh'j c' ctf u."cr' r r'ecdr'ucpf ctf u."cpf' y gk't'ki j v'v'cpf' t'gur qpukdk'k'gu0'

**THE PROJECT QUALIFIED FOR A FOCUSED INSPECTION**



# OSHA AND ADOSH JURISDICTION

By

Julie A. Pace

Stinson Morrison Hecker LLP

"

Vj g"r wtr qug"qh"vj g"Qeewr cvkqpcn"Uchgv\ "cpf "J gcnj "Cev'qh"3; 92"ku"\$vq"cuuwtg"uq"lct"cu" r quukdrg"gxgt {"y qtnkpi "o cp"cpf "y qo cp"kp"vj g"P cvkqp"uchg"cpf "j gcnj hwn'y qtnkpi "eqpf kklqpu"vq" r tguqtxg"qwt "j wo cp"tguqwtg"u\$"4; "WUE0'E"873\*d-0"Vj g"rxy "etgcvf "vj g"hgf gtcn"Qeewr cvkqpcn" Uchgv\ "cpf "J gcnj "Cf o kpkwtcvkqp"\*\$QUI C\$-cpf "gpcdnf "ucvg"i qxgtpo gpw"vq"r cuu'ucvg"QUI C" r rcpu"vq"ghqteq"qeewr cvkqpcn"uchgv\ "cpf "j gcnj "kuwgu"y kj kp"gej "ucvg0Ctk qpc"fkf "uq"y kj "vj g" gpcevo gpv'qh"vj g"Ctk qpc"Qeewr cvkqpcn"Uchgv\ "cpf "J gcnj "Cev'kp"3; 940"C0T0U0E"45/623. "gv""ugs0

"

## K' OPERATION OF THE ARIZONA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH.

Kp"Ctk qpc."vj g"hgf gtcn"cpf "ucvg"Qeewr cvkqpcn"Uchgv\ "cpf "J gcnj "rxy u'ctg"ghqteq" d {"vj g" Ctk qpc"fkklqpu"qh"Qeewr cvkqpcn"Uchgv\ "cpf "J gcnj "\$CF QUI \$-y j lej "ku'r ctv'qh"vj g"Kpf wntkcn" Eqo o kuukqp"qh"Ctk qpc0Vj g"ucvg"rxy "cpf "tgi wrcvqpu"lpeqr qtcvg"vj g"hgf gtcn"rxy "cpf "tgi wrcvqpu." cpf "vj g" ucvgu" cf o kpkwtcvkqp" qh" ku" QUI C" ucpg ctf u" ku" uwdlgev" vq" txxlgy" d {"vj g" hgf gtcn" i qxgtpo gpv' r wuwcgv" vq" vj g"hgf gtcn"/cr r tqxgf "ucvg" r rcp0T gur qpukdkk\ "hqt" vj g" kpur gevqpu." ekcvqpu"cpf "cr r gcn"qh"vj qug"ekcvqpu"ku" j qy gxgt."j cpf rnf "d {"vj g"ucvg"i qxgtpo gpv"y kj "vj g" gzegr vqp"qh" Kpf kcp"tguqtxcvqpu."o kkt {"dcugu." cpf "egtckp"qvj gt"rko kgf "ctgcu"wpf gt"hgf gtcn" eqptqnf

"

## KK' EMPLOYERS SUBJECT TO ADOSH.

Cm'r tkxcvg"go r m{gtu"ctg"eqxgtgf "d {"vj g"hgf gtcn"cpf "ucvg"QUI C"ucwgu."kp"eqptcuw"vq" ucvg" cpf "hgf gtcn"ekkl" tki j w" ucwgu" y j lej "eqxgt" qpn {"vj qug" go r m{gtu" y kj "37" qt" o qtg" go r m{ggu0Wpknq"egtckp"o cpci gtcn"gzenukqpu"ltqo "qxgtvko g" r tqxkukqpu"qh"vj g"Hkt"Ncdqt" Ucpf ctf u"Cev"cm'go r m{ggu'qh'c"dwukpgu"ctg"eqxgtgf .y kj qw"gzegr vqp0"C0T0U0E"45/6230

"

Cp"cf fklqpcn'tkuni'ht" go r m{gtu"ku"vj cv'vj g {"o c {"dg"eqpukf gtgf "vq"dg"lqkv" go r m{gtu"qh" egtckp" go r m{ggu"y j gtg"uwej "go r m{ggu"ctg"uwdlgev"vq"vj g"fk gevqpu"cpf "eqptqnf"qh'o qtg"vj cp"qpg" go r m{gt0Vj ku"ukwcvkqp"o quv'qh'gp"ctkugu"y j gp"uwdeqptcevtu"ctg"wgf "cv'c"o wmk" go r m{gt"lqd" ukvg0

"

## III. OSHA STANDARDS.

### A. Specific OSHA Standards.

CF QUI "tgs vktgu"vj cv"\$gej "go r m{gt"uj cm'eqo r n {"y kj "qeewr cvkqpcn"uchgv\ "cpf "j gcnj " ucpg ctf u"cpf "cm'tgi wrcvqpu"cpf "qtf gtu"\$C0T0U0E"45/625\*D-0"QUI C"Ucpf ctf u"ctg"ko r ngo gpvgf " vq"cf f tgu"ur gekle"kp wntkcu"qt"y qtnr nreg"j c| ctf u0CF QUI "i gpgtcm {"cf qr w'vj g"hgf gtcn"QUI C" ucpg ctf u."kpuvgf "qh'cf qr vpi "ku"qy p"ucpg ctf u0

"

"



Vj gtg"ctg"i gpgtcn'lpf wut { "ucpf ctf u" \*4; "EHO0'E"3; 32+" cpf "ucpf ctf u" cr r dcdng" vq" r ctvwrt'lpf wutku."uwej "cu'eqpwtvkwq"\*4; "EHO0'E"3; 48+."ci tlewwt g"\*4; "EHO0'E"3; 4: +."cpf " qjy gtuo' Ucpf ctf u" chgev" y qtnr meg" r tcevegu." o qpkqtkpi " vqzle" uwducpegu." wug" qh" r j { ulecn' uchgi wctf u." r gtupcn'r tqvevkg"gs vkr o gpv."kpur gevpi "cpf "vgvpi "gs vkr o gpv."uki pu'cpf "y ctpkpi u." gve0Vj gtg"ctg"j c| ctf "eqo o wplecvkpu"ucpf ctf u"cpf "tgeqtf ngrg kpi "cpf "tgr qt vpi "tgs vkt go gpvu." y j lej "ctg" f kuewugf "hvgf "kp"vj gug"o cvgtkcn0

QUI C"gpcew"ucpf ctf u"d { "eqo r rvgpi "vj g" hqto cn'twrg/o cnkpi "r tqegu0Vj g" hqto cn'twrg/" o cnkpi "r tqegu"r tqeggf u"cu'hqmjy u<uwo kuukqp"v"cpf "eqpukf gtcvqp"qh"vj g"r tqr qugf "twrg"d { "cp" cf xkqt { "eqo o kvgg."r wdrkcvqp"qh" c"r tqr qugf "ucpf ctf "kp"vj g" Hgf gtcn'T gi kvgt."tgegkxkpi "r wdrke" eqo o gpv."cpf "r tqo wri cvkpi "vj g" hpcn'ucpf ctf 0Vj gtg"ctg" c"xctkgv { "qh"qjy gt "rgi cn'tgs vkt go gpvu"vj cv" i qxgtp"vj g"twrg/o cnkpi "r tqegu."cpf "ucpf ctf u"o c { "dg"ej cmgpi gf "kp"eqwt0

Kpf wut { "ecp" kphwpeg"vj g"r tqr qugf "ucpf ctf "d { "rtxkf kpi "r wdrke"eqo o gpv"y j gp"vj g" ucpf ctf "ku"kp"vj g" hqto "qh" c"r tqr qugf "twrg0Hwtj gto qtg."go r m { gtu"o c { "f gultg"v"qti cpk g"cp" cuuqekcvqp" qh" uko kctn { "ukwcvf" go r m { gtu" v" gpi ci g" kp" mdd { kpi " ghqtu" cpf " v" eqo dlpq" tguqwtgu" hq" rgi cn'ugt xlegu."eqpukvpi "qh"pgi qvkvkpu"y kj "ucvq" cpf "hgf gtcn'QUI C"qhlekcn' tgi ctf kpi "vj g"lpvtr gvcvqp"qh" c"r ctvwrt"ucpf ctf "cpf "kpukwvpi "rgi cn'cevqp."kh"pgi qvkvkpu" hck0Go r m { gtu"uj qwf "dg" kppqxcvkg"kp"cf f tguvpi "r tqdrgo u"wpks wg"v"cp"kp f wut { "qt"eqo r cp { 0' Rctvkr cvkqp" d { "uchgv { "rtqhuukpvcn" kp" c" f kmqj wg" y kj "CF QUI "ecp" r qukxgn { "uj cr g" vj g" ko r rgo gpvcvqp" qh" xctkqu" ucpf ctf u" cpf " kpkcvg" c" eqqr gtcvkg" y qtnkpi " tgrvkvpuj kr " y kj " CF QUI 0

## B. General Duty Clause.

I gpgtcn { "ekcvkpu" ctg" kuwgf " hqt" cmgi gf " xkqrkvkpu" qh" c" ucpf ctf " vj cv" ur gekhecm { " cf f tguugu"vj g"ektewo ucpegu."r tqegf wtgu."r qrkkgu"qt"gs vkr o gpv"wpf gtn { kpi "vj g"ekcvkp0Qp"uqo g" qeekcvkpu."j qy gxgt."vj gtg"ku"pq"ucpf ctf "vj cv"ur gekhecm { "cf f tguugu"vj g"ektewo ucpegu0kp"vj qug" ektewo ucpegu."CF QUI "y km'kuwg" c"ekcvkp"r wtucpv"v"vj g"Si gpgtcn'f w { "erwug\$""Vj g"i gpgtcn' f w { "erwug"ko r qugu"wr qp" go r m { gtu"vj g" qdrki cvkqp"v"r tpxkf g" c"y qtnr meg" vj cv"ku"uchg" cpf " j gcmj { ".gxgp"y j gp"vj gtg"ku"pqv" c"ur gekhe"QUI C"ucpf ctf "vj cv"cf f tguugu"vj g"o cwgt0

Vj g'i gpgtcn'f w { "erwug"tgcf u"cu'hqmjy u<

Gcej "go r m { gt"uj cm'hwtpkuj "v" gcej "qh"j ku"go r m { ggu"go r m { o gpv" cpf "c"r meg"qh"go r m { o gpv"y j lej "ctg"htgg"htqo "tgeqi pk gf "j c| ctf u" vj cv"ctg"ecwvpi "qt"ctg"rkngn { "v"ecwug" f gcvj "qt"ugt kqu"r j { ulecn'j cto " vj"j ku"go r m { ggu0

COTU0E"45/625\*C-0

K'ku"ko r qtcvpv"v"pqvg"vj cv"vj g"i gpgtcn'f w { "erwug"cr r rkgu"qpn { "v"\$tgeqi pk gf \$"j c| ctf u0 Vj wu."cp"go r m { gt"uj qwf "pqv"dg"nkdng" hqt" kplwt lgu"tguwvpi "htqo "f cpi gtu"vj cv"vj g"go r m { gt" f kf" pqv'npqy "cdqww"cpf "vj cv'y gtg"pqv'tgcuqpcdn { "cr r ctgp0"Vj g"i gpgtcn'f w { "erwug"cnq"cr r rkgu"qpn { " v"eqpf kvkpu"vj cv'y km'rkngn { "ecwug" f gcvj "qt"\$ugt kqu"\$ kplwt { 0"Vj cv'r tqxkukqp"ecwugu"cn""xkqrkvkpu" qh"vj g"i gpgtcn'f w { "erwug"v"dg"eruwk hgf "cu"ugt kqu"xkqrkvkpu."wprkng"vj g"pqv/ugt kqu"ekcvkpu" vj cv'o c { "dg"cuuguugf "wpf gt"ur gekhe"ucpf ctf u0"



Cf fklqpcml. "CF QUI "uj qwr f "pqv kuwg" c"ekcvkp" r wtuwcpv"vq" y g" i gpgtcl'f wwl "erwug" kh' y gtg" ku" c" ur gekhe" ucpf ctf "y cv' ku" qp" r qlpv0 See Secretary of Labor v. Odessey Printing, Co., 36" QUI C" 3: 6; \*3; ; 2+ UAW v. General Dynamics, : 37" H0f "3792" \*F OE" Ek03; : 9+0

#### IV. OSHA INSPECTIONS AND ENFORCEMENT.

Cu' f kuewugf "kp" o qtg' f gvckl' ncvgt "kp" y g" o cvgtkcl. "CF QUI "ucpf ctf u' ctg" gphqtegf "y tqwi j " y qtmr nceg" kpur gevklpu" d{ "CF QUI "eqo r rlcpeg" qhhegtu0' Cp" go r m{ gt" uj qwr f "eqpukf gt" o cp{ " hcevqtu' cpf " j cxg" cp" QUI C" r tglpur gevklp" r qlke{ "kp" r nceg' r tlqt "vq" y g' vko g' y cv' c' eqo r rlcpeg" qhhegt" cttkxgu" cv' y g' lqd' uksg" hqt "cp" kpur gevklp0' O quv' ko r qtcvpl. "y g" go r m{ gt" uj qwr f "f guki pcvg" c' y cm/ ctqwpf "tgr tguvpv' kxg" htqo "y g" eqo r cp{ "vq" gueqt' v' cpf "eqphgt" y kj "y g" eqo r rlcpeg" qhhegt0' Vj g" kpur gevklp" uj qwr f "pqv' dgi kp" wvkl' y g' y cm/ ctqwpf "tgr tguvpv' kxg" ku' r tguvp0'

Cpqy gt "eqpukf gtcvklp" ku' y j gyj gt "vq" eqpugpv' vq" cp" kpur gevklp" ctg' kpukv' wr qp" y g' kuwcpvg" qh' c' y cttcp0' Y cttcpv' o c{ "dg" qdvcvklp" vq" eqo r gnl' ceegu' vq" cp" go r m{ gt" u' uksg. cpf "y gtg" ctg" c' xctkgy " qh' qy gt" tki j w' cpf " r tqegf wgu" chhegtvpi " y g" o cppgt" kp" y j kej " cp" kpur gevklp" ku" eqpf wevgf 0' Cf fklqpcml' hcevqtu' vq" eqpukf gt" y j gp' eqpugpv' vpi "vq" cp" kpur gevklp" lpenw' g' r tqvgevklp" qh' v' cf g' ugetgu. " uco r ng' vguvpi. " go r m{ gg' l' vgtxky u. " r j qvqi tcr j u' qh' kgo u' kf gpvkl' gf "d{ "eqo r rlcpeg" qhhegt \*u' cu" c" xkqr' cvklp. " cpf "ko o gf k' cvg" cdcvgo gpv' qh' qdugtxgf "xkqr' cvklpu" d{ "c" o cl' v' gpcpeg" go r m{ gg0'

#### V. ADOSH CITATIONS AND ADMINISTRATIVE AND LITIGATION PROCESS.

Go r m{ gt u' y knl' dg' i kxgp" ur gekhe" vko g' r gt kqf u' vq" cdcvg" cp{ "cmgi gf "xkqr' cvklpu0' Ekcvklpu. "kh' cp{. "o wuv" dg" kuwgf "y kj kp" ukz" o qpvy u' hqmvy lpi. "y g" kpur gevklp0' Rgpcn' vku" hqt "ekcvklpu" ecp" dg" kuwgf "kp" cp" co qwpv' wr "vq" &92.222" r gt" kgo 0' Y kj kp" 37" y qtnlpi "f c{ u' chgt" y g" ekcvklp. "y g" go r m{ gt" o c{ "cwgo r v' vq" cej kxg" cp" Skphqto cnf" dw' y tkwgp' ugwgo gpv' y kj "CF QUI 0' Kf' y g' ekcvklp" ku' pqv' ugwgf. "y g" go r m{ gt" o wuv' pqvkl' "CF QUI "y cv' k' ku' eqpvguvpi "y g' ekcvklp0'

Kf' y g' ekcvklp" ku' eqpvugf. "y gtg' y knl' dg' c' hqto cnl' j gctkpi "dghgtg" cp" kpf wutkcl' Ego o kuukqp" cf o kpkutcvkxg" ncy "lwf i g0' Rtgr ctcvklp" hqt" y g" j gctkpi "lpenw' gu" eqpf wevpi "f kueqxtg{. "uwej "cu" f gr qukl' kpu" cpf "l' vgttqi cvt' lgu0' Vj g" cf o kpkutcvkxg" ncy "lwf i g) u' f gekukqp" o c{ "dg" cr r gcrf "vq" c" Tgxky "Dqctf. " cpf "y gp" wvko cvgn{ "vq" y g" Ctl' k' qpc" Eqwtv' qh' Cr r gcn0' "Vj gtg" ku" pq" Sv' t' knf" kp" Uwr gt' kqt "Eqwtv' qh' ekvkl' CF QUI "gphqtego gpv' r tqeggf lpi u0' Etlo kpcn' r tqugewklp" ku' r quukdg. "dw' tctgn{ 'r wtuwgf 0'



# **ADOSH INSPECTION POLICY**

**BY**

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**STINSON MORRISON HECKER LLP**

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## OCCUPATIONAL SAFETY AND HEALTH ACT

- Á C\$uwr gtxluqt\$'cv'cp{ 'hgxgn'ecp'dg'eqpukf gtgf 'cp'ci gpv'qh'yj g'Ego r cp{0'
- ❖ ""Vj g'eqo o gpw'cpf 'cevkqpu'qh'c'\$uwr gtxluqt\$'ecp'lo r qug'hcdkx{ 'wr qp'yj g'Ego r cp{0'

## SERIOUS INJURY ACCIDENTS AND ILLNESS MUST BE REPORTED TO ADOSH IF:

- ❖ ""5"qt'o qtg'r gqr ng'j qur kcrk{ gf "
- ❖ ""H'vcrkx{ 't'gr qt v'y kj kp': 'j qwtu+ "
- ❖ ""Go r mq{ gt't'gr qt w'v'q'CFQUI . 'pqv'r qn'eg'qt'hk'g'f'gr ctwo gpw"

## ADOSH INSPECTION

- ❖ ""Ugtkqwu'Ceekf gpv'
  - ÁUgtkqwu'lplwt{ "qt'h'vcrkx{ "
- ❖ ""T ghgttcni"
  - ÁCFGS "
  - ÁO gf lecn'
  - ÁQy gt'ci gpe{ "
  - ÁO wplek'crkkgu'hk'g'f'gr ctwo gpv"
- ❖ ""Hqmqy /Wt "
  - ÁCdcvg'gpv'qh'ugt'kqwu'xkqrvkqp"
  - ÁRt'gxlqwu'ekcvkqp'h'vcrkx{ "qt'ugt'kqwu'lplwt{ +"

## CIVIL CITATIONS AND PENALTIES

- |                         |                              |
|-------------------------|------------------------------|
| ❖ ÁP qp/ugt'kqwu<       | I gpgtcm{ . 'pq'r gpcn{ "    |
| ❖ ÁUgt'kqwu<            | Wt "q"&9.222'r gt'xkqrvkqp"  |
| ❖ ""Y knhwn<            | Wt "q"&92.222'r gt'xkqrvkqp" |
| ❖ ""T gr gc<            | Wt "q"&92.222'r gt'xkqrvkqp" |
| ❖ ""H'knwt'g'v'q'Cdcvg< | &9.222'r gt'f'c{ "           |



## ADOSH INSPECTION

❖ "Tgs wguv'r tqr gt 'lf gpv hlec vkp "dghqtg"eqpugpvkpi "vq'kpur gev vkp"

- Á Kf gpv hlec vkp "Ectf "
- Á Dwukpguu "Ectf "
- Á Ecm'cpf "xgtkh{ . 'kh'pgeguuct { "

❖ "Hcng"lf gpv hlec vkp "ecp"qeewt'kpxqmkpi <"

- Á Kpuwtcepg"Kpxguvi cvkpu"
- Á Rtkxcvg"Kpxguvi cvqtu"
- Á Cwqtpg{u"
- Á O gf kc"
- Á Ur gekn'Kpvgtguv'I tqwr u"

## ADOSH INSPECTION

❖ "F gycto kpg'tgcuqp'hqt'xkukv"

- Á Rrcppgf "kpur gev vkp"
- Á Ceekf gpv"
- Á Hqmty /wr "vq'r t g x k q w u'ekc vkp"
- Á Tghgttcn"
- Á P cvkqpcn'qt"mecn'go r j cuku'qp'r ctvkewmt'j c| ctf "
- Á Y cttcpv"

❖ "Kó o gf kcvgn'pqukh{ "cr r tqr tlcvg'uwr gtxkuqt0Y ck'hqt'uwr gtxkuqt"qt'f guki pcvgf "  
y cm/ctqwpf'tgr tgugpvckxg'r tlqt"vq'eqo o gpekpi "kpur gev vkp0"

**IN MOST CIRCUMSTANCES YOU MAY REQUEST THAT THE INSPECTION  
NOT START UNTIL THE DESIGNATED SUPERVISOR ARRIVES**



"

## ADOSH EXCEPTIONS

"

- ❖ "CFQUI 'tgr tguḡpvcxg'u'rkngl 'y knl'kpukv'qp'uvctv'kpi 'vj g'l'pur gevqt'chgt'cp"  
cddtgxkcvf "qr gplpi "eqphgtgpeg"dgecwug"qh"
  - Á K o kḡpvF cpi gt"
  - Á Go r j cuku'qp'Hm'qt'Gzecxv'kp"J c| ctf u"
  - Á Ceekf gpw"

"

## WALK-AROUND REPRESENTATIVE

"

- ❖ "F guki pcvg"qy p'tgr tguḡpvcxg'v'q'cee qo r cp{ 'vj g'l'pur gevqt'f wtkpi 'vj g'r j { ukecnl'  
kpur gevqt'qh'vj g'y qtnr meg0'
- ❖ ""F guki pcvgf 'r gtup'uj qwf 'uv{ 'y kj 'vj g'CFQUI 'kpur gevqt'cv'cm'ko gu0'
- ❖ ""Eqqt'f kpcvg'tgr tguḡpvcxg'u'qp'o wnk r g'go r m{ gt'ukgu0'
- ❖ "Cxqkf 'xqnpvggtkpi 'lphqto cvkqp"
- ❖ "Eqpukf gt'j cxkpi 'c'ugeqpf 'tgr tguḡpvcxg'y j q'cnngu'pqvgu'cpf lqt'r j qvqi tcr j u'f wtkpi "  
vj g'l'pur gevqt0'
  - Á F q'pqv'r tqxkf g'vj g'pqvgu'v'vj g'l'pur gevqt.'j qy gxt0'
- ❖ "Eqpukf gt'j cxkpi 'c'b ckvpcpeg'go r m{ gg'r tguḡpv'y j q'ecp'ko o gf kcvgn{ "cdcvg"  
j c| ctf u'vj cv'o ki j v'dg'kf gpv'k'kf 0'
- ❖ "C'vj g'gpf 'qh'vj g'l'pur gevqt.'vj g'go r m{ gt'u'f guki pcvgf 'r gtup'uj qwf 'eqpcev'Ngi cnl'  
Eqwpugn'Ngi cnl'Eqwpugn'o c{ 'f k'gev'vj cv'c'y tkwgp'tgr qtv'dg'o cf g'qt'o c{ 'lpvgtxkgy "  
vj g'tgr tguḡpvcxg0'
- ❖ "Cp{ 'y tkwgp'tgr qtv'uj qwf 'dg'y tkwgp'f k'gevn{ 'v'vj g'cwqtpg{ 'v'j gnr 'r tguḡtxg'y g"  
cwqtpg{/enḡpv'r tkxkgi gu0'

"

"

## OPENING CONFERENCE

"

Y j q'Uj qwf "dg'RtguḡpvA"

- ❖ "Eqo r cp{ 'O cpci gt'qt'Uchgv{ 'Uwr gtxkqt"
- ❖ "CFQUI 'kpur gevqt'u"

"

- 30Á F kuewuu'r tqegf vtu'ht'kpur gevqt0'
- 40Á Vj g'l'pur gevqt'o quv'rkngl 'y knl'tgs wguv'ur gekle'uchgv{ 'tgeqtf u'\*kq0"522"mji u."  
J c| eqo 'Rtqi tco 'Uchgv{ 'Rtqi tco -0'
- 50Á F kuewuu'ueqr g'qh'vj g'l'pur gevqt"
- 60Á K gpv'k{ 'go r m{ gt'u'f y cm'ctqwpf 'tgr tguḡpvcxg'\$y j q'y knl'cee qo r cp{ 'vj g"  
kpur gevqt'f wtkpi 'vj g'kpxgukv'cvkqp0'
- 70Á F gvgto kḡg'h'r j qvqi tcr j u'qt'xkf gqu'y knl'dg'cnḡp0'Rtqygev'tcf g'ugetgw0'
- 80Á F gvgto kḡg'h'uco r nkpi 'qt'vgukpi 'ku'v'q'dg'eqo r ngvf 0'
- 90Á Eqpugpv'v'kpur gevqt'qh'ugcte j 'y cttcp0'

"



"

## EMPLOYEE PARTICIPATION

"

❖ "Wpklp"

❖ "Tgrtgugpvcxg'cv'Qr gplpi 'cpf 'Enukpi 'Eqphgtgpeg"

"

Go r mq{ ggu'J cxg'yj g'tki j v'q'ur gcnlr tkxcvgn{ 'y kj 'CF QUI . 'kh'yj g{ 'grgev'v'q'f'q'uo0Go r mq{ ggu" o c{ 'j cxg'c'Wpklp'tgrtgugpvcxg'r'tgugp'0'

"

"

"

## EMPLOYEE INTERVIEWS

"

❖ ""Vj g'CF QUI 'kpur gevqt'ecp'cumi'v'lpvgtxkgy "go r mq{ ggu'lp'r tkxcvg0'

❖ ""K'ku'go r mq{ gg'u'ej qleg'v'q'r ctvlekr cvg'lp'lpvgtxkgy 0'

❖ ÁGo r mq{ ggu'f'q'pqv'j cxg'v'q'r tqxkf g'CF QUI 'yj gkt'j qo g'cf f'tguu'cpf 'j qo g'r'j qpg" pwo dgtu0'

❖ ""Go r mq{ gt'uj qwrf <"

• ÁVcmi'v'q'go r mq{ ggu'dghqtg'CF QUI 'lpvgtxkgy u'go r mq{ ggu0'

• ÁGo r mq{ ggu'uj qwrf "dg'twaj hwi0'

• ÁTgo kpf "go r mq{ gg'cdqww'tcklpi . 'vqqndqz "vcnu. "J c| Ego "cpf "O UF U" uj ggu0'

• ÁGo r mq{ ggu'uj qwrf "i gpgtcn{ 'pqv'uki p'ucvgo gpw'hqt'CF QUI 0'

• ÁJ cxg'CF QUI 'kf gpvkh{ "go r mq{ ggu'yj g{ 'y cpv'v'q'lpvgtxkgy . 'ngv'cwqtpg{ " cttcpi g'lpvgtxkgy u'qp'cpqvj gt'f'c{ "cv'cwqtpg{ "u"qhheg"qt'Ego r cp{ "qhheg0'

"

"

## ADOSH INSPECTION

"

❖ ""Cp{ 'uwr gtxkuqt{ . 'hqtgo cp'qt'bo cpci gtken'go r mq{ gg'yj q'ku'dgkpi 'lpvgtxkgy gf 'j cu'yj g" tki j v'q'j cxg'c'Ego r cp{ 'tgrtgugpvcxg'qt'ngi cnleqwpugn'r'tgugp'v'f'wtkpi 'yj g" lpvgtxkgy 0'

❖ ""F gdtlghkpi "qh'lpf kxkf wcnu'lpvgtxkgy gf 0'

"



"

## CLOSING CONFERENCE

"

❖""Eqo r cp{ 'O cpci gt'qt'Uchgv 'Uwr gtxluqt"

❖""CFQUI 'Eqo r rkcpeg'QHleg"

"

P qvg<CFQUI 'o c{ 'grgev'vq'j' cxg'c'ugr ctcvg'emulpi "eqphgtgpeg'y kj 'wplqp"  
tgr t gugpvcvkg0'

"

❖ÁF kœwulqp"qh"

~Áp{ "cr r ctgpv'xkqrvcqpu"

~Áj g'go r m{ gt'u'tki j w'cpf "qdri cvkpu"

~Áp{ "cdcvg gpv'tgs wktgo gpw"

~Áj g'cpv'f kuetko kpcvqp'ugevqp"

❖""Vj g'go r m{ gt'uj qwf 'y qtqwi j n' 's wgvkqp'yj g'kpur gevqt'cu'vq'cm'ctgcu'qh'r quukdng"  
cpf 'r tqdcdn' 'xkqrvcqpu0'

❖""Fq'pqv'cf o k'vq'cp{ "qdugt xgf "qt'cdcvgf "j c| ctf 0'

❖""S wgvkqp'yj g'kpur gevqt'cu'vq'y j gyj gt'cp{ 'ekcvkqp'u+y kn'dg'kuwgf 0'

❖""Cun'vj g'kpur gevqt'y j cv'uj qwf "dg'f qpg'vq'cdcvg'c'r ctvkwrt'ukwcvkqp0'

"

"

"

## APPEAL OF CITATION

"

❖Ákphqto cn'eqphgtgpeg"

❖""O wuv'eqpvguv'y kj kp'37'y qtnkpi "f c{ u'qh'tgegkxkpi "ekcvkqp"

❖""Eqpvguv'ekcvkqp'kp'y tkkpi "

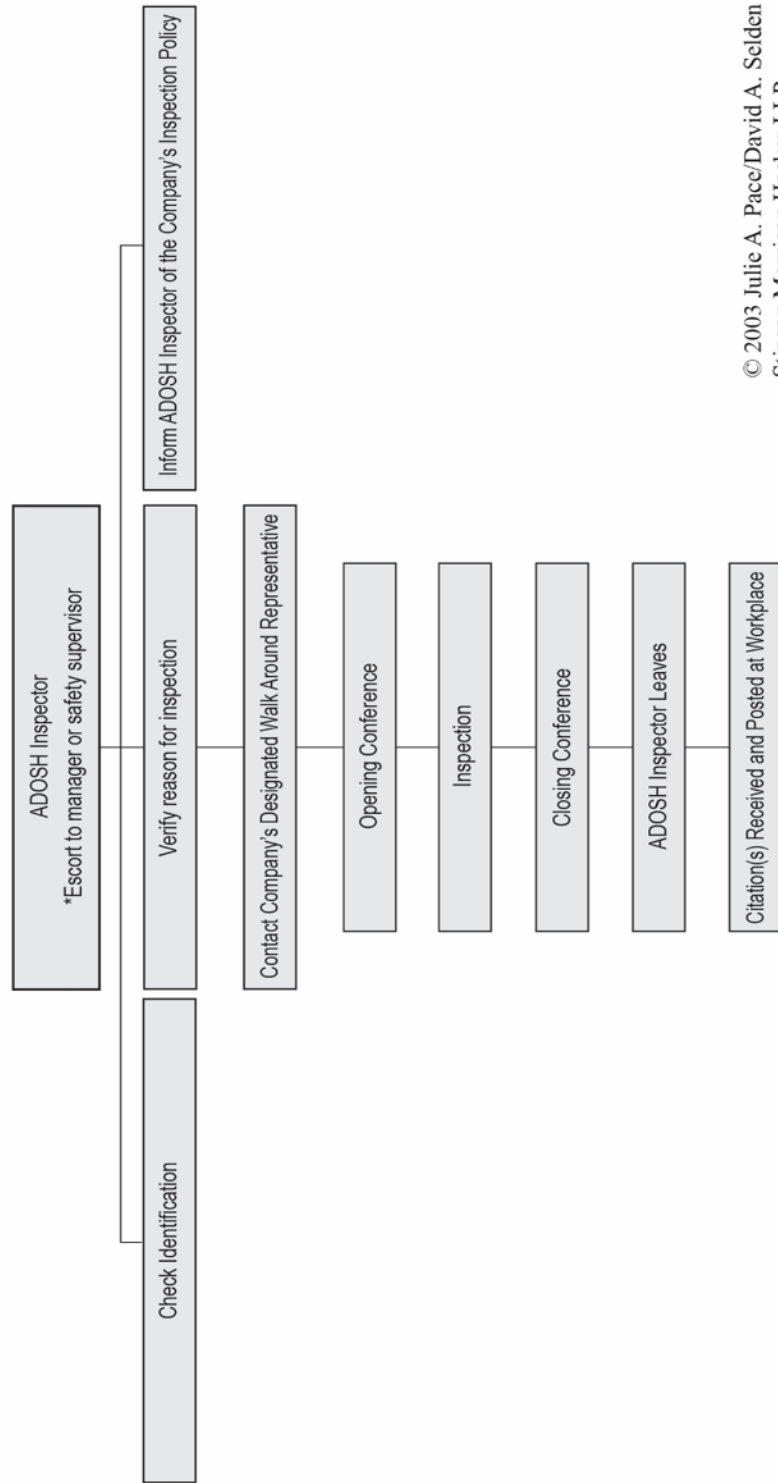
❖""Qdvclp'eqr { "qh'CFQUI u'hkg"

❖""Rtqeggf "vq'j gctlpi "

"



# ADOSH INSPECTION FLOW CHART



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**WHAT RECORDS SHOULD BE KEPT FOR SELF-PROTECTION  
AND DEFENSE AGAINST OSHA CITATIONS?**

**By**

**Julie A. Pace  
David A. Selden**

**Stinson Morrison Hecker LLP**

"

"

RJ ZF QEU'374348x3"

"LwkgRcegIF cxkf "Ugrf gp"  
Ukpuqp'O qttkuqp"J gengt'NNR



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**1. WHAT RECORDS SHOULD BE KEPT FOR SELF-PROTECTION AND  
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**A. DOCUMENTS TO RETAIN.**

Cm' qh' y g' tgeqtf ngr lpi " tgs wkt go gpw' f guetkdgf " cdqyg" uj qwf " dg" o clpvcpgf " d{ " go r m{ gtu."dqy "v"gpuwtg"eqo r rcpgey kj "QUI C"tgs wkt go gpw'cu'y gm'cu'v"cuukv"go r m{ gtu"lp" f ghgpf lpi "ci clpuv'cmgi gf "QUI C"xlqrvcqpu0'Vj ku'ugevqp"y km'f kuewuu'f qewo gpw'v cv'go r m{ gtu" uj qwf "tgvcp"lp"qtf gt"v"j gr "y go "f ghgpf "ci clpuv'cmgi gf "QUI C""xlqrvcqpu0'

Go r m{ gtu" uj qwf " o clpvcp" y qtm' twrgu" y cv' tgs wkt g" go r m{ ggu" v" hmqy " cm' uchgv " r tgegf wtgu." y cv' r tqxkf g" hqt "f kuer rpg" qh' go r m{ ggu" y j q" xlqrvcg" uchgv " r tgegf wtgu." cpf " y cv' tgs wkt g" go r m{ ggu"v"pqvkh{ "y g"eqo r cp{ "kh'y g{ "ctg"cumgf "v" gpi ci g"lp"qt "kh'y g{ "qdugt xg"qy gtu" gpi ci gf "lp"eqpf wev'y cv'xlqrvcgu"uchgv " r tgegf wtgu0'O clpvcplpi "y qug"r qrelgu"r tqo kpgpv "lp"cp" go r m{ gg"j cpf dqqn'cpf lqt "qy gt"eqpur kewqu"r nceg"y km'dg"j gr hwi'lp"guvdrkuj lpi "y cv' r quukdrq" hwwt g"wpuchg"eqpf wev'd{ "cp"go r m{ gg"xlqrvcg"eqo r cp{ " r tgegf wtgu"cpf "y cv'y g"go r m{ gt "nemu" npqy rgi g'qh'wej "kuqrvgf ."vgo r qtct { ."qt"qecukqpcn'xlqrvcqpu0'

Cu'y kj "cp{ "ugv'qh'r gtuqppgn'r qrelgu"qt"ucpf ctf u"qh'go r m{ gg"eqpf wev."k'ku"j gr hwi'hqt " go r m{ gtu"v" f kvtkdwg"y qug"r qrelgu"qt"ucpf ctf u"lp"y tkkpi "lp"qtf gt "hqt "y g"go r m{ gt "v"o cng" chkt o cvxg"wg"qh'y g"xlqrvcqp"qh'y qug"r qrelgu"qt"ucpf ctf u"lp"c"r ctvwrt "ukwvcqp0'Gxgp"y qtug" hqt "cp"go r m{ gt "y cp"pqv'j cxlpi "y tkwgp"r qrelgu"qt"ucpf ctf u."j qy gxgt."ku'hqt "cp"go r m{ gt "v"cmqy " uwey " r qrelgu"qt"ucpf ctf u"v" gzku' qp"r cr gt."dw"pqv"lp"hev' gphqteg"y go 0'"Go r m{ gtu"uj qwf " y gtghqtg"pqv' cf qr v' cp{ " uchgv " r tceveg" qt "y qtm' twrgu" y cv' y g{ "ctg"pqv' r tgr ctgf "v" gphqteg" eqpukrgpv "lp"r tceveg0'Cf qr vqp"qh'r qrelgu"y cv'y g"go r m{ gt "npqy lpi n{ "f qgu"pqv' gphqteg"lp" r tceveg"ecp"gzr qug"y g"go r m{ gt "v"c'tkumqh'c'y kmhwekvcqpu0'

Go r m{ gtu"uj qwf "o clpvcp" f qewo gpvcqp"y cv'guvdrkuj gu"y cv'y g{ "f q" gphqteg"y gk"y qtm' twrgu"cpf "uchgv "tgs wkt go gpw0'P qvcqpu"uj qwf "dg"r nceg "lp"r gtuqppgn'hrgu"cpf lqt "uwr gtxkqt { " pqvgu" uj qwf " dg" ngr v' v" eqphkto " y cv' go r m{ ggu" y gtg" ur qngp" vq." eqwpugrf ." f kuer rpgf " qt " vgt o lpcvgf "f wg"v"xlqrvcqpu"qh'uchgv "twrgu0'Vj g'f qewo gpvcqp" f qgu"pqv'j cxg"v"dg"gzvpukg0'C" uj qtv'qpg"qt "y q'rkpg"j cpf y tkwgp."f cvgf "gpv{ "lp"cuwr gtxkqt u"pqvgdqnm'ku'uw'hkelpv'cpf "qhvgp" vko gu'ku'o qtg'r gtuwcukxg"y cp"c" hqto cn'o go q'y cv'i kxgu"y g"cr r gtcpeg"qh'c"equo gve."\$r cr gtlpi \$" qh'y g'hkg0'

K'ku'r ctvwrt n{ "lo r qtcvpv'hqt "go r m{ gtu"v" f qewo gpv'y cv'go r m{ ggu"j cxg'tgekgxgf "r tqr gt " lpwtwekqp"tgi ctf lpi "y g"qr gtcvqp"qh'gs wkr o gpv'cpf "qy gt"uchgv "o gcuwgu0'Ceekf gpv'hts wgpv " qeewt "dgecwug"go r m{ ggu'o cng'ectgrgu'o kuvngu."cpf "k'y km'dg"etwecnhqt "go r m{ gtu"v"dg"cdrg"v" guvdrkuj "y cv'cp"ceekf gpv'tguwngf "htqo "cp"go r m{ gg"u"gttqt "cpf "xlqrvcqp"qh'y qtm'twrgu"y cv'y cu'

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Ukpuqp"O qttkuqp"J gengt "NNR



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" K"ku"dgpghekcn"ht"uwej "fqewo gpvcvqp"v"dg"uki pgf "d{ "j g"go r m{ ggu."dgecwug"j cv"ku" o wej "o qtg"r gtuxkxg"j cp"cp"go r m{ gt"fghepf kpi "ci clpuv"cp"QUI C"ekcvqp"d{ "t{ kpi "v"r tqxg" j cv"ky cu"j g"go r m{ gt}u"ucpf ctf "r tceveg"v"i kxg"uwej "tclpki "v"go r m{ ggu0"Hwtj gto qtg. "kp" j g"ecug"qh"c"hcwkv{. "j g"t gegf gpv"ku. "qh"eqwtug. "tci lecm{ "pq"npi gt"cxckrdg"v"dg"cumgf "y j gj gt" j g"qt"uj g"tgegkxg"j g"uchgv "tclpki 0C"uki pgf "cenpy ngf i o gpv'd{ "j g"t gegf gpv"qh"j g"tgegr v"qh" j g"tclpki "y kn'dg"xgt { "j gr hwi"v"j g"go r m{ gt"lp"gvcdkuj kpi "j cv"ky cu"lpf kxf wcnj wo cp"gttqt" j cv'ecwugf "j g"ceekf gpv"tcj gt"j cp"cp"qo kuukp"lp"j g"go r m{ gt}u"uchgv "tclpki 0

" Fqewo gpvcvqp" tgi ctf kpi "uchgv "cpf "j gcnj "kphqo 3cvqp" cpf "r tgecwqpu" i kxgp" v" go r m{ ggu"ku"cnuq"etwecn'dgecwug"o go qtkgu"hc f g"cpf "j g"go r m{ gt}u"o cpci go gpv"go r m{ ggu" y kj "npqy ngf i g"qh"uchgv "o gcuwtgu"o c{ "tgwtg."ej cpi g"lqdu"qt"qy gty kug"dg"wpckrdg"v"cp" go r m{ gt"y j gp"pggf gf "v"fghepf "ci clpuv"cp"QUI C/tgrvgf "encko 0Hqt"gzco r ng. "cp"go r m{ gt" eqwf "hceg"c"encko "c"fgcf g"qt"o qtg"lp"j g"hwatg"j cv"r cuv"go r m{ gg}u"j gcnj "r tqdrgo "ku"j g" tguwn"qh"cp"gzr quwtg"v"q"v"qzke"uwdvcp"kp"j g"y qtnr neg0P q"qp"qp"dgj cnh"qh"j g"go r m{ gt" o c{ "tgo go dgt"j g"ur gekle"uchgv "cpf "j gcnj "r tgecwqpu"j cv"y gtg"cnrp"y kj "j cv"go r m{ gg" o cp{ "{ gctu"gtcrgt0"kp"uwej "c"ukwcvqp."j g"go r m{ gt"y kn'dg"lp"c"o wej "utqpi gt"r qukkqp"hi"ky"j cu"" c"uki pgf "cenpy ngf i p3gpv"lp"ku"hg"xgtkh{ kpi "j cv"j g"go r m{ gg"y cu"lphqo 3gf "cdqw"j g"j gcnj " tkumi"qh"j ku"qt"j gt"lqd."y cu"qhgtgf "cr r tqr tcvgr"tqvevxo" gcuwtgu."j gcnj "o qpkktpki ."gve0

" Cp"cf f kkpncn"ctgc"cdqw"y j lej "k'ku"ko r qtvcpv"v"o clpvcp"fqewo gpvcvqp"lpqxkngu"j g" cxqkf cpeg"qh'encko u"qh'tgcrkcvqp"ci clpuv"go r m{ ggu"y j q"cuugt v"j gk"QUI C"tki j u0"K"j cu'dgeqo g" kpetgcukpi n{ "eqo o qp"ht"go r m{ ggu."qhngp"y kj "j g"eqwpuhpi "qh'r rclpwhu"go r m{ o gpv"ry { gtu." v"o cng"lpvgtpcn"qt"gzvgtpcn"eqo r rclpu"cdqw"j gcnj. "uchgv "qt"gpvktqpo gpvcn'o cvgtu"v"vklpi "vko g" r gtlqf u"y j gp"j g"go r m{ gg"uwr gew"j cv"j g"qt"uj g"o c{ "dg"kp"fcpi gt"qh"nukpi "j ku"qt"j gt"lqd0D{ " cwgo r vki "v"emcni"qpgugr"y kj "j g"r tqvevqp"qh" c" \$y j kwg"dmj gt.\$"j g"go r m{ gg"i tgcw{ " kpetgcugu"j g"tkumi"v"j g"go r m{ gt"qh"vgo lpcvki "j cv"go r m{ gg0Vj g"go r m{ gg"eqwf "dtkpi "c"encko " hqt"tgcrkcvqp"wpf gt"j g"QUI C"ucwug."qt"eqwf "dtkpi "eqo o qp"ry "y tqpi hwi"luej cti g"lp"dtgcej " qh'r wdike"r qrke{ "vqtv'encko ."y kj "cni"qh"j g"cwgpfpv"tkumi"qh"lwt{ "vkcni"cpf "j g"r quukdkv{ "qh" r vpkkxg"fc o ci gu0

" Kp"qtf gt"v"r tqvev"ci clpuv"uwej "encko u."go r m{ gt}u"uj qwf "o clpvcp"fqewo gpvcvqp"qh"j g" ngi kko cvg."pqp"QUI C/tgrvgf "tgcuppu"ht"j g"fguej cti g"qh"cm"go r m{ ggu0Vj cv"fqewo gpvcvqp" uj qwf "kpenf g"r gtlqf le"r gthqto cpeg"cr r tclucnu."eqwpuhpi "tgi ctf kpi "r gthqto cpeg"fghekgpekgu." eqpvgor qtcpgquw" uwr gtxkuqtu" pqvu" tgi ctf kpi "r gthqto cpeg" r tqdrgo u" cpf "f kiewuakpu." cpf " eqpvgor qtcpgquw"y qtnr tqf wev"qh"j g"go r m{ gg"lp"s wgvkqp"cpf "eq/y qtngtu0Dghgtg"fgel kpi " y j gj gt"v"vgo lpcv"cp"go r m{ gg"ht"ecwug."j g"fqewo gpvcvqp"uj qwf "dg"tgxky gf "v"eqphko "

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"LwkgRcegIF cxkf "Ugrf gp"  
Ukpuqp"O qttkuqp"J gengt "NNR



vj cv'yj g'go r m{ gt "eqwrf . "kh"pgeguuct { . "f go qpwtcvg"vq" c"i qxgtpo gpv'ci gpe { . "c"lwfi g . "cpf "c"lw { " vj cv'yj g'go r m{ gg'u'r gthqto cpeg'ku'f go qpwtcdn { 'y qtug'vj cp'vj g'r gthqto cpeg'qh'eqy qtngtu0

"

Kp"cf f kkp"vq"vj g"cdqyg" f qewo gpvckqp" tgi ctf lpi "vj g" r ctvkwrt" go r m{ gg"kp" s wguvqp . " go r m{ gtu"uj qwrf "cnuq" ngr "tgeqtf u"vj cv' gpcdr"vj g" go r m{ gt "vq" kf gpvkh { "go r m{ ggu"y j q"j cxg" xqlgf "eqpegtpu"tgi ctf lpi "j gcnj "qt"uchgv { "o cwgutgkj gt "lpvgtpcm { 'y kj kp'vj g'eqo r cp { "qt"vj tqwi j " gzvgtpcn' ci gpeku0 Vj qug" tgeqtf u"uj qwrf "dg" ugi tgi cvgf "cpf "pqv' o ckpckpgf "cu" c" r ctv' qh' vj g" r gtuqppgn' hkgu"qh'vj qug" go r m{ ggu0 Ceegu"vq"vj qug" tgeqtf u"uj qwrf "dg" utkew { "nko kgf "cpf "vj g" eqphkf gpvckr { "qh'vj qug' hkgu"uj qwrf "dg" o ckpckpgf 0

"

Vj qug" hkgu"y km' gpcdr"vj g'eqo r cp { "vq" r qkp'vq" go r m{ ggu"y j q"j cxg" mfi gf "j gcnj "qt" uchgv { "eqo r rkpw"cpf "y j q"j cxg"pqv'dggp "tgvrckvgf "ci ckpu'lp" qtf gt "vq" tghwg"cp { "rvgt "cmgi cvkpu" d { "cp" go r m{ gg"y j q"cmgi gu'vj cv'j g"qt"uj g'y cu"tgvrckvgf "ci ckpu'f wg"vq" cuvgvki "QU C"tki j u0 Vj g" go r m{ gt u"cdk { "vq" f go qpwtcvg"vj cv'k'f kf "pqv'j cxg"cp"QU C/tgvrckvqt { "o qvkg"y km'dg" i tgcw { "gpj cpegf "kh' k' ecp" kf gpvkh { "qvj gt" go r m{ ggu"y j q"j cxg" gpi ci gf "kp" QU C/r tqvgvgf " cevkkkgu"cpf "y j q"j cxg"eqpvkpgf "vq" gplq { "uweeguuhwlectggu"cv'vj g'eqo r cp { "

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## **B. OTHER EMPLOYMENT-RELATED DOCUMENT RETENTION PRACTICES.**

Go r m{ gtu"uj qwrf "o cng"uwtg"vj cv'vj g { "tgvrckp"egtckp" go r m{ o gpv'tgrvgf "f qewo gpw'vj cv' o c { "dg"etvrckn'lp"tgur qpf lpi "vq"cp" go r m{ gg"y j q" hkgu" c"ej cti g'y kj "vj g"GGQE . "Ctk qpc"Ekkl' Tki j u" F kklqp . "QU C . "qt" F gr ctvo gpv'qh'Ncdqt"cmgi lpi "f kuetko kpcvqp"qt"ercko lpi "cf f kklqpcn' y ci gu0 Vj g" hqmy lpi "ku" c"uwo o ct { "qh'vj g"vko g" r gtkqf u" hqt"y j lej "egtckp" f qewo gpw'uj qwrf "dg" tgvrckpgf "vq"eqo r n { 'y kj "i qxgtpo gpv'tgi wrcvku0

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### **1. Fair Labor Standards Act and the Age Discrimination in Employment Act.**

Dqvj "qh'vj gug"my u" tgs vktg"vj cv'vj g" hqmy lpi "tgeqtf u"dg" o ckpckpgf "hqt"vj tgg" { gctu< Rc { tqm'tgeqtf u"egtvrckvgu . "ci tgggo gpw . "r rpu . "pqvkgu . "cpf "ucrgu"cpf "r wtej cug"tgeqtf u0 Cf f kklqpcn { . "dcule" go r m{ o gpv'cpf "gctplki u"tgeqtf u"y ci g"tcvg"vcdrgu . "qtf gt . "uj kr lpi " cpf "dkrki "tgeqtf u" . "cpf "cm'tgeqtf u" wugf "vq" f gvo 3kpg" qtki kpcn'equv . "f gr tgeckvqp . "cpf " lpvgtgu'ej cti gu' o wuv'dg'ngr v' hqt"y q" { gctu0

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### **2. Americans With Disabilities Act and Title VII.**

Rgtuqppgn'cpf "go r m{ o gpv' tgeqtf u . "lpenf lpi "cr r rckvku" hqt" go r m{ o gpv . "uj qwrf "dg" tgvrckpgf "hqt"qpg" { gct "htqo "vj g" f cvg"qh'vj g" o cnki "qh'vj g"tgeqtf "qt"qpg" { gct "htqo "vj g" r gtuqppgn' cevku . "lpenf lpi "lpxqnpvct { "vgto kpcvqp . "y j lej gxgt "ku'rvgt0Y j gtg" c"GGQE"qt"CETF"ej cti g"j cu" dggp" hkgf . "qt"cevku"dtqwi j v . "tgeqtf u"uj cm'dg" r tguvtxgf "wpvki" hpcn' f kur qukvqp"qh'vj g"ej cti g"qt" cevku0

"

### **3. Family and Medical Leave Act.**

Vj g" hqmy lpi "kgo u"uj qwrf "dg"tgvrckpgf "hqt"vj tgg" { gctu< dcule" r c { tqm' cpf "kf gpvkh { lpi " go r m{ gg" f cvc . "f cvgu"HO NC"rgcxg"ku'vngp . "vj g"j qwtu"qh'rgcxg"kh'rgcxg"ku'vngp" hqt"rgu"vj cp"qpg"

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"LwkgRcegIF cxkf "Ugrf gp"  
Ukpuqp'O qttkuqp"J gengt"NNR



f c{+ " eqr kgu" qh" go r m{gg" pqvkgu" qh" rncxg" hmpkuj gf " vq" yj g" go r m{gt." f qewo gpw"  
f guetkdlpi "go r m{gg"dgpghku"qt"go r m{gt"r qrlkgu"cpf "r tcevkgu"tgi ctf lpi "yj g"cnkpi "qh"  
r ckl "cpf "wpr ckl "rncxg." r tgo kwo "r c{o gpw"qh"go r m{gg"dgpghku." cpf "tgeqtf u"qh"cp{ "  
f kur wgu'tgi ctf lpi "f guki pcvkqp"qh'rncxg"cu"HO NC"rncxg0

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#### 4. Immigration Reform and Control Act.

K; "hqtu u"uj qwf "dg"ngr v'hqt"yj tgg">{ gctu"chgt"vgtu kpcvkqp"kh'yj g"go r m{gg"y qtngf "  
hqt"yj g"go r m{gt"hqt"ngu"yj cp"qpg">{ gct."qt"qpg">{ gct"chgt"fcvg"qh"vgtu kpcvkqp"kh'yj g"  
go r m{gg"y qtngf "hqt"yj g"go r m{gt"hqt"o qtg"yj cp"qpg">{ gct."y j lej gxgt"ku"rcvgt0K; "hqtu u"  
o wuv'dg"ngr v'hqt"cm'ewtgpv"go r m{ggu0

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#### 5. Occupational Safety and Health Act.

Vj g"hqmvy lpi "tgeqtf u"uj qwf "dg"o clpvcldpf "hqt"hxg">{ gctu"hqmvy lpi "yj g"gpf "qh"  
yj g">{ gct"vq"y j lej "yj g"tgeqtf u"tgrvw/QUI C"522"mi ."uwr r ngo gpvcn'tgeqtf "qh"klwtkgu"cpf "  
kmpguugu."cpf "cppwcn'uwo o ct{ "qh'qeewr cvkpcn'klwtkgu"cpf "kmpguugu0

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#### 6. EEO-I Forms.

Qp"cpqvj gt"pqv."go r m{gtu"y kj "322"qt"o qtg"go r m{ggu"o wuv"hrp"GGQ/Khqtu u"  
cppwcn{0Vj g"tgr qtv'o wuv'dg"tgcldpf "cv"yj g"y qtmukg"cpf "tgs vktgu"go r m{ggu"vq"dtgcn"  
f qy p'yj gkt"y qtnhqtgu'd{ "tceg."gyj plekv{."cpf "i gpf gt0

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"LwkgRcegIFcxkf"Ugrf gp"  
Ukpupp"O qttkuqp"J gengt"NNR"

"



# EMERGENCY ACTION PLAN

## PROJECT SPECIFIC EMERGENCY ACTION PLAN

### **PURPOSE:**

In the course of construction activities, OUR COMPANY endeavors to always provide the safest and most secure workplace possible. However, in spite of all efforts, situations can occur that result in serious personal injury or even death, and extensive damage to property.

It extremely important that all OUR COMPANY projects develop and implement site specific emergency action plans prior to a project beginning work and continue to revise and /or maintain the emergency action throughout the duration of the project.

Emergency Action Plans must be designed to control emergency events and minimize the effects of those events. Through careful pre-planing, establishment of Emergency Action Teams, training and drills, employees can be safeguarded and potential for damage to owner, public, and OUR COMPANY assets minimized.

The purpose of a site specific **Emergency Action Plan (EAP)** is to:

- Assure the maximum safety, health, and security possible for our employees and other people on site.
- Safeguard OUR COMPANY and owner property and equipment.
- Distribute information needed by employees, owners, emergency services, the public and news media, regulatory agencies and others with legitimate needs for this information.
- Eliminate confusion, incorrect information and further loss through effective management of the situation.

### **Types of emergencies to be considered:**

- Medical Injuries
- Severe Weather
- Bomb Threats
- Haz Mat
- Utilities (electrical, water, gas, etc.)



# EMERGENCY ACTION PLAN

## DEVELOPING THE EMERGENCY ACTION PLAN

At the beginning of each project, the Superintendent will be responsible for assembling the EAP information and making appropriate assignments of responsibility. This information should be a part of the overall Project Safety Plan.

- A. Assign responsibility for assuring the security of all personnel in the event of a site-wide emergency or disaster. Typically, individual foreman should be instructed that they are responsible for assuring that all employees under their control are accounted for to the Superintendent. The Superintendent, or if absent, his designee, is responsible for overall management of this plan in the event of an emergency. Site supervisory personnel are responsible for helping manage the emergency situation until they are relieved through direction of the appropriate authority. Site supervisory personnel should not leave the site or the area of the site, unless directed to do so by the President/Operations Manager, emergency or law enforcement personnel or an obvious need to protect their own safety.
- B. Emergency Services - Gather and arrange for posting current phone numbers, names, physical locations and contact names as listed on the attached Project Data Sheet. Include detailed directions to the site. This information must be sent to the Safety Coordinator and posted near telephones on site. When listing phone numbers, do not use 911 - This would not help an individual calling from outside your area!
- C. Assign responsibility for maintenance of a complete and accurate site file of emergency information for all employees. This file should be readily accessible in the event of an emergency. An individual and a backup should be assigned the responsibility to remove this file from the site in the event of a complete site evacuation.
- D. Inform the appropriate corporate office departments of the Emergency Action Plan and any extraordinary aspects of it. At a minimum, those departments include:
  - Safety
  - Personnel
  - Operations



# EMERGENCY ACTION PLAN

**Note: This section only contains a brief outline regarding site specific, emergency action plans. The OUR COMPANY Corporate Emergency Action Plan guide must be followed when developing a site specific, emergency action plan.**

## PROJECT DATA

<b>PROJECT NAME:</b>		<b>PROJECT NO:</b>
<b>\$ AMOUNT:</b>		<b>PROJECT START DATE:</b>
<b>COMPLETION DATE:</b>		
<b>DESCRIPTION:</b>		
<b>LOCATION ADDRESS:</b>		
Specific Directions to Site:		
GPS Coordinates:		
<b>PHONE NO:</b>		
<b>FAX NO:</b>		
<b>Project Manager:</b>	Cell #xxx-xxx-xxxx	Hm # xxx-xxx-xxxx
<b>Superintendent:</b>	Cell #	Hm #
<b>Safety Engineer:</b>	Cell #	Hm #
<b>Division Manager:</b>	Cell #	Hm #
<b>Spokesperson:</b>	Cell #	Hm #
<b>OWNER:</b>		
<b>Address:</b>		
<b>Contact:</b>		<b>Ph. No:</b>
<b>ENGINEER:</b>		
<b>Address:</b>		
<b>Contact:</b>		<b>Ph. No:</b>



# EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>		<b>PROJECT NO:</b>	
<b>MEDICAL:</b>			
Clinic: Address:		Ph. No:	
Hospital: Address:		Ph. No:	
Ambulance:		Ph. No:	
<b>POLICE/FIRE:</b> Emergency - 911			
Police - City:		Ph. No:	
- County:		Ph. No:	
- State:		Ph. No:	
Fire:		Ph. No:	
<b>UTILITIES:</b>			
Power:		Ph. No:	
Gas:		Ph. No:	
Water:		Ph. No:	
Sewer:		Ph. No:	
Phone:		Ph. No:	
<b>LEGAL:</b>			
TIC –		Ph. No: Fax No:	
First Contact to		Ph. No: Fax No:	
<b>GOVERNMENT OFFICES:</b>			
OSHA:		Ph. No:	
HAZ MAT:		Ph. No:	
EPA/Pollution Control:		Ph. No:	
<b><u>INSURANCE COMPANY:</u></b>			



# EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>		<b>PROJECT NO:</b>	
<b>MEDIA:</b>			
Newspapers:		Ph. No:	
		Ph. No:	
Radio:		Ph. No:	
		Ph. No:	
TV:		Ph. No:	
		Ph. No:	
<b>SERVICES:</b>			
<b>Photographer #1:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Photographer #2:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Airplane Charter Service:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Helicopter Service:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Equipment Rental:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Equipment Rental:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>INTERPRETER SERVICE:</b>		Ph. No:	



# EMERGENCY ACTION PLAN

<b>COMMENTS:</b> Are there any special hazards to be aware of? Is there any pertinent information specific to job?



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

## **PURPOSE:**

In the course of construction activities, OUR COMPANY endeavors to always provide the safest and most secure workplace possible. However, in spite of all efforts, situations can occur that result in serious personal injury or even death, and extensive damage to property.

It extremely important that all OUR COMPANY projects develop and implement site specific emergency action plans prior to a project beginning work and continue to revise and /or maintain the emergency action throughout the duration of the project.

Emergency Action Plans must be designed to control emergency events and minimize the effects of those events. Through careful pre-planning, establishment of Emergency Action Teams, training and drills, employees can be safeguarded and potential for damage to owner, public, and OUR COMPANY assets minimized.

The purpose of a site specific **Emergency Action Plan (EAP)** is to:

- Assure the maximum safety, health, and security possible for our employees and other people on site.
- Safeguard OUR COMPANY and owner property and equipment.
- Distribute information needed by employees, owners, emergency services, the public and news media, regulatory agencies and others with legitimate needs for this information.
- Eliminate confusion, incorrect information and further loss through effective management of the situation.

## **Types of emergencies to be considered:**

- Medical Injuries
- Severe Weather
- Bomb Threats
- Haz Mat
- Utilities (electrical, water, gas, etc.)

## **DEVELOPING THE EMERGENCY ACTION PLAN**

At the beginning of each project, the Superintendent will be responsible for assembling the EAP information and making appropriate assignments of responsibility. This information should be a part of the overall Project Safety Plan.

- A. Assign responsibility for assuring the security of all personnel in the event of a site-wide emergency or disaster. Typically, individual foreman should be instructed that they are responsible for assuring that all employees under their control are accounted for to the Superintendent. The Superintendent, or if absent, his designee, is responsible for overall management of this plan in the event of an emergency. Site supervisory personnel are responsible for helping manage the emergency situation until they are relieved through direction of the appropriate authority. Site supervisory personnel should not leave the site or the area of the site, unless directed to do so by the President/Operations Manager, emergency or law enforcement personnel or an obvious need to protect their own safety.



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

- B. Emergency Services - Gather and arrange for posting current phone numbers, names, physical locations and contact names as listed on the attached Project Data Sheet. Include detailed directions to the site. This information must be sent to the Safety Coordinator and posted near telephones on site. When listing phone numbers, do not use 911 - This would not help an individual calling from outside your area!
- C. Assign responsibility for maintenance of a complete and accurate site file of emergency information for all employees. This file should be readily accessible in the event of an emergency. An individual and a backup should be assigned the responsibility to remove this file from the site in the event of a complete site evacuation.
- D. Inform the appropriate corporate office departments of the Emergency Action Plan and any extraordinary aspects of it. At a minimum, those departments include:
  - Safety
  - Personnel
  - Operations

**Note: This section only contains a brief outline regarding site specific, emergency action plans. The OUR COMPANY Corporate Emergency Action Plan guide must be followed when developing a site specific, emergency action plan.**



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

## PROJECT DATA

<b>PROJECT NAME:</b>	<b>PROJECT NO:</b>
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>\$ AMOUNT:</b>   <b>COMPLETION DATE:</b> </div> <div style="width: 45%;"> <b>PROJECT START DATE:</b> </div> </div>	
<b>DESCRIPTION:</b>	
<b>LOCATION ADDRESS:</b>	
Specific Directions to Site:	
GPS Coordinates:	
<b>PHONE NO:</b>	
<b>FAX NO:</b>	
<b>Project Manager:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Cell #xxx-xxx-xxxx</div> <div style="width: 30%;">Hm # xxx-xxx-xxxx</div> </div>
Superintendent:	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Cell #</div> <div style="width: 30%;">Hm #</div> </div>
<b>Safety Engineer:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Cell #</div> <div style="width: 30%;">Hm #</div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"></div> <div style="width: 30%;"></div> </div>
<b>Division Manager:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Cell #</div> <div style="width: 30%;">Hm #</div> </div>
<b>Spokesperson:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Cell #</div> <div style="width: 30%;">Hm #</div> </div>
<b>OWNER:</b>	
<b>Address:</b>	



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>	<b>PROJECT NO:</b>
Contact:	Ph. No:
<b>ENGINEER:</b>	
Address:	
Contact:	Ph. No:



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>		<b>PROJECT NO:</b>	
<b>MEDICAL:</b>			
Clinic:		Ph. No:	
Address:			
Hospital:		Ph. No:	
Address:			
Ambulance:		Ph. No:	
<b>POLICE/FIRE:</b> Emergency - 911			
Police - City:		Ph. No:	
- County:		Ph. No:	
- State:		Ph. No:	
Fire:		Ph. No:	
<b>UTILITIES:</b>			
Power:		Ph. No:	
Gas:		Ph. No:	
Water:		Ph. No:	
Sewer:		Ph. No:	
Phone:		Ph. No:	
<b>LEGAL:</b>			
TIC –		Ph. No:	
		Fax No:	



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>		<b>PROJECT NO:</b>	
First Contact to		Ph. No: Fax No:	
<b>GOVERNMENT OFFICES:</b>			
OSHA:		Ph. No:	
HAZ MAT:		Ph. No:	
EPA/Pollution Control:		Ph. No:	
<b><u>INSURANCE COMPANY:</u></b>			
<b>MEDIA:</b>			
Newspapers:		Ph. No:	
		Ph. No:	
Radio:		Ph. No:	
		Ph. No:	
TV:		Ph. No:	
		Ph. No:	
<b>SERVICES:</b>			
<b>Photographer #1:</b>			
		Day Ph. No:	
		Night Ph. No:	
<b>Photographer #2:</b>			
		Day Ph. No:	



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

<b>PROJECT NAME:</b>	<b>PROJECT NO:</b>
	Night Ph. No:
<b>Airplane Charter Service:</b>	
	Day Ph. No:
	Night Ph. No:
<b>Helicopter Service:</b>	
	Day Ph. No:
	Night Ph. No:
<b>Equipment Rental:</b>	
	Day Ph. No:
	Night Ph. No:
<b>Equipment Rental:</b>	
	Day Ph. No:
	Night Ph. No:
<b>INTERPRETER SERVICE:</b>	Ph. No:



# PROJECT SPECIFIC EMERGENCY ACTION PLAN

**COMMENTS:** Are there any special hazards to be aware of?  
Is there any pertinent information specific to job?




**SECTION E**

**RESIDENTIAL FALL  
PROTECTION**



**" E1926.500 Scope, application, and definitions applicable to this subpart.**

**1926.500(a) Ueqrg" cpf" crnrkcvkp0'** \*3+ Vj ku' uwdrcv' ugw' hqt'j " tgs vktgo gpw'cpf "etkgtlc" hqt' hcm'r tqvgevkp' lp' eqputvevkp' y qtnr' megu' eqxgtgf " vpf gt " 4; " EHT" r ctv' 3; 480' Gzeqr vkp< Vj g' r tqxlvkp' qh' vj ku' uwdrcv' f q' pqv' cr r n' " y j gp' go r nq' ggu' ctg' o cmkpi " cp' lpur gevkp. " lpxgvki cvkp. " qt' cuuguo gpv' qh' y qtnr' meg' eqpf kskpu' r tkt' " vj " y g' ceuwn' uctv' qh' eqputvevkp' y qtnr' qt' chgt' cm' eqputvevkp' y qtnr' j cu' dggp' eqo r rvgf 0'

**1926.500(a)(2) Ugevkp' 3; 480' 23' ugw' hqt'j " y qug' y qtnr' megu. " eqpf kskpu' 0'** qr gtcvkpu' / cpf " ekewo uncepu' hqt' y j lej " hcm'r tqvgevkp' u'j cm' dg' r tqxlf gf " gzeqr v' cu' hqmqy u' "

**1926.500(a)(2)(i)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' y qtnkpi " qp' uechtqf u' ctg' r tqxlf gf " lp' uwdrcv' N' qh' vj ku' r ctv' 0'

**1926.500(a)(2)(ii)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' y qtnkpi " qp' egtvclp' etcpgu' / cpf " f gttkemu' ctg' r tqxlf gf " lp' uwdrcv' P' qh' vj ku' r ctv' 0'

**1926.500(a)(2)(iii)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' r gthqto kpi " uggng' tgevkp' y qtnictg' r tqxlf gf " lp' Eñ 480' h27' cpf " lp' uwdrcv' T' qh' vj ku' r ctv' 0'

**1926.500(a)(2)(iv)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' y qtnkpi " qp' egtvclp' v' r gu' qh' gs vkr o gpv' wuef " lp' wppgkpi " qr gtcvkpu' ctg' " r tqxlf gf " lp' uwdrcv' U' qh' vj ku' r ctv' 0'

**1926.500(a)(2)(v)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' gpi ci gf " lp' vj g' eqputvevkp' qh' gtevk' v' tcpuo kuukp' / cpf " f kntkdwkq' hkp' u' cpf " gs vkr o gpv' ctg' r tqxlf gf " lp' uwdrcv' X' qh' vj ku' r ctv' 0'

**1926.500(a)(2)(vi)** Tgs vktgo gpw' tgrvki " vj " hcm'r tqvgevkp' hqt' go r nq' { ggu' y qtnkpi " qp' uncky c' u' cpf " tcf f gtu' ctg' r tqxlf gf " lp' uwdrcv' Z' qh' vj ku' r ctv' 0'

**1926.500(a)(3)** " Ugevkp' 3; 480' 24' ugw' hqt'j " vj g' tgs vktgo gpw' hqt' vj g' lpurcvrkvkp' 0' Eqputvevkp. " cpf " r tqr gt' " wue' qh' hcm'r tqvgevkp' tgs vktgf " d' " r ctv' 3; 48. " gzeqr v' cu' hqmqy u' "

**1926.500(a)(3)(i)** Rgthqto cpeg' tgs vktgo gpw' hqt' vj wctf tcklu' ( ugo u' wuef " qp' uechtqf u' / cpf " r gthqto cpeg' tgs vktgo gpw' hqt' hcmkpi " qdlgev' r tqvgevkp' wuef " qp' uechtqf u' ctg' r tqxlf gf " lp' uwdrcv' N' qh' vj ku' r ctv' 0'

**1926.500(a)(3)(ii)** Rgthqto cpeg' tgs vktgo gpw' hqt' uncky c' u' " uncktkcl' u' ( ugo u' " cpf " j cpf tcklu' ctg' r tqxlf gf " lp' uwdrcv' Z' qh' vj ku' r ctv' 0'

**1926.500(a)(3)(iii)** Cffsklqpcn' r gthqto cpeg' tgs vktgo gpw' hqt' " r gtuqpcn' enko dki " gs vkr o gpv' hkpgo cpu' dqf { " dgnu. " uehgv' " utrcr u' " cpf " rcp { ctf u' ctg' " r tqxlf gf " lp' uwdrcv' X' qh' vj ku' r ctv' 0'

**1926.500(a)(3)(iv)** " Ugevkp' 3; 480' 24' f qgu' pqv' cr r n' " vj " uggng' gtgevkp' cevkxklgu' 0' P' qv< " Ugevkp' 3; 480' 26' ugw' vj g' etkgtlc' hqt' dqf { " dgnu. " rcp { ctf u' " cpf " hkgkpgu' wuef " hqt' hcm'r tqvgevkp' lp' uggng' tgevkp' cevkxklgu' 0' Rctci tcr j u' " d+ " e+ " cpf " h+ " qh' E3; 480' 29' r tqxlf g' f ghlkklqpu' hqt' vj g' r gt v' gpv' u' to' 0'

**1926.500(a)(4)** " Ugevkp' 3; 480' 25' ugw' hqt'j " tgs vktgo gpw' hqt' v' tclpki " lp' vj g' lpurcvrkvkp' / cpf " wue' qh' hcm'r tqvgevkp' u' ( ugo u' ) gzeqr v' lp' t' gnrkvkp' vj " uggng' gtgevkp' cevkxklgu' 0'

**1926.500(b) Fghlklqpu' 0'**

**Cpej qtcig o** gpcu' c' " ugewt g' r qkp' v' qh' cwcej o gpv' hqt' " hkgkpgu. " rcp { ctf u' " qt' " f gegng' cvkp' f' gxlegu' 0'

**Daf { " dgnv** " uehgv' " dgnv o gpcu' c' " utrcr " y ksj " o gpcu' dqj " hqt' ugewt kpi " k' cdqw' vj g' y ckn' / cpf " hqt' cwcej kpi " k' v' q' " rcp { ctf. " hkgkpg. " qt' f gegng' cvkp' f' gxlegu' 0'

**Daf { " ctpguu** o gpcu' utrcr u' y j lej " o c' " dg' ugewt g' " cdqw' vj g' go r nq' { gg' lp' c' " o cpgt' " vj cv' y kn'e3 lmt3 dwe' vj g' hcm' cttgu' hqt' egu' qxgt' cv' hgu' vj g' vj k' j u' " r gnxku. " y ckn. " ej gu' v' cpf " u' q' wuf gtu' y ksj " o gpcu' hqt' cwcej kpi " k' v' q' vj g' go r nq' { gg' lp' c' " r gtuqpcn' hcm' cttgu' u' ( ugo u' )

**Dweng' b** gpcu' cp { " f gxleg' hqt' j' qrf kpi " vj g' dqf { " dgn' / qt' " dqf { " j' ctpguu' enuqf " ctqwpf " vj g' go r nq' { gg' u' dqf { 0'

**Eqppgevt o** gpcu' c' " f gxleg' y j lej " ku' wuef " vj " eqw' r g' " eqppgevt' r ctv' qh' vj g' " r gtuqpcn' hcm' cttgu' u' ( ugo " cpf " r qsklqkpi " f' gxleg' u' ugo u' v' q' vj g' go r nq' { gg' lp' c' " dg' cp' lp' f g' rpf gpv' eqo r qpgpv' qh' vj g' u' ( ugo " uwe' " cu' c' " ectcdlpgt. " qt' " k' v' o c' " dg' cp' " lp' g' i c' r' eqo r qpgpv' qh' vj ctv' qh' vj g' u' ( ugo " uwe' " cu' c' " dweng' " qt' " f gg' / tki p' " ugy p' " lp' v' q' " dqf { " dgn' / qt' " dqf { " j' ctpguu. " qt' " c' " l' pcr / j' qqn' l' r d' eg' " qt' " ugy p' " v' q' c' " rcp { ctf " qt' " ueh' / t' g' t' cvkpi " rcp { ctf + 0'

**Eqpvt qngf " ceegui' / qpg' (CAZ)** " o gpcu' cp' ctgc " kp' y j lej " egtvclp' y qtnr' \*gd 0' qxgtj cpf " dtkemu' ( kpi + o c' { " vcn' r' r' me' y ksj qw' vj g' wue' qh' vj wctf tcklu' ( ugo u' " r gtuqpcn' hcm' cttgu' u' ( ugo u' " qt' " uehgv' " p' g' v' u' ( ugo u' / cpf " ceegui' v' q' vj g' / qpg' ku' eqpvt qngf 0'

**Fcpj gt qwu' gs vkr o gpv** o gpcu' gs vkr o gpv' " uwe' " cu' r kempki " qt' " i c' n' c' k' p' k' kpi " vcpnu. " f' g' i t' g' c' kpi " v' p' ku. " o c' ej kpgt { . " g' r' g' t' e' c' k' i' gs vkr o gpv' " cpf " q' vj g' t' " v' p' ku. " y j lej. " cu' c' " t' g' u' w' n' / qh' h' q' to " qt' " h' w' p' e' v' k' p. " o c' { " dg' j' c' { ctf qwu' v' q' go r nq' { ggu' y j q' hcm' lpv' q' t' " lp' v' q' uwe' j' gs vkr o gpv' 0'

**Fgegng' cvkp' f' gxleg** o gpcu' cp { " o g' ej c' p' ku 0' uwe' j' " cu' c' " t' q' r' g' i t' c' d. " t' k' r' / u' w' k' e' j' " rcp { ctf. " ur g' e' k' m' / y q' x' gp' rcp { ctf. " ue' t' k' pi " qt' " f' g' h' q' to kpi " rcp { ctf u' " cwqo c' v' k' e' " ugh' / t' g' t' cvkpi " h' k' g' k' p' g' u' l' rcp { ctf u' " g' v' e' 0' y j lej " u' g' t' x' gu' v' q' f' k' u' k' r' c' v' g' " c' " u' w' d' n' c' p' v' k' i' " co q' w' p' / qh' g' p' g' t' i { " f' w' k' pi " c' " h' m' i' c' t' t' g' u' w' " q' t' " q' vj g' t' y k' u' g' " k' o " k' v' j' g' " g' p' g' t' i { " k' o r' q' u' g' f' " qp' " cp' go r nq' { gg' f' w' k' pi " h' m' i' c' t' t' g' u' 0'

**Fgegng' cvkp' f' f' h' k' p' e' g** o gpcu' vj g' " c' f' k' k' p' c' n' " x' g' t' v' e' c' n' f' k' v' c' p' e' g' " c' " h' c' m' k' i' " go r nq' { gg' " v' c' x' g' n' " g' z' e' n' f' k' pi " h' k' g' k' p' g' " g' n' p' i' cvkp' " / cpf " h' t' g' " h' m' i' f' k' n' c' p' e' g. " d' g' h' t' g' " u' w' r' k' pi " . h' t' q' o " vj g' r' q' l' p' v' c' v' y j lej " vj g' f' f' gegng' cvkp' f' gxleg' d' g' i' k' p' u' v' q' r' g' t' c' v' g' 0' k' i' o' g' c' u' w' t' g' " cu' vj g' f' k' n' c' p' e' g' d' g' y' g' p' vj g' f' h' q' e' c' v' k' p' qh' c' p' go r nq' { gg' u' / dqf { " d' g' n' " q' t' / dqf { " j' ctpguu' cwcej / o gpv' r' q' l' p' v' c' v' y j g' o' gpv' qh' c' v' k' c' v' k' p' " v' c' v' j' g' q' p' u' g' v' qh' h' m' i' c' t' t' g' u' h' t' e' g' u' qh' vj g' f' gegng' cvkp' f' gxleg' f' w' k' pi " c' " h' m' i' c' p' f' " vj g' f' h' q' e' c' v' k' p' qh' vj c' v' c' w' c' e' j' o gpv' r' q' l' p' v' c' h' g' t' vj g' go r nq' { gg' " e' q' o' g' u' v' q' c' " h' m' i' u' w' r' 0'

**Gs w' k' c' r' g' p' v** o gpcu' c' n' g' t' p' c' v' k' g' " f' g' u' k' i' p' u. " o c' v' g' t' c' k' n' " qt' " o g' vj q' f' u' " vj " r' t' q' v' e' v' c' i' c' k' p' u' c' j' c' { ctf " y j lej " vj g' go r nq' { g' t' " e' c' p' f' g' o' q' p' u' t' c' v' g' y' k' n' i' r' t' q' x' l' f' g' c' p' " g' s' w' c' n' " qt' " i' t' g' c' v' g' " f' g' i' " g' g' " qh' " u' e' h' g' v' " h' q' t' " go r nq' { ggu' vj cp' vj g' o' g' vj q' f' u. " o c' v' g' t' c' k' n' " qt' " f' g' u' k' i' p' u' r' g' e' k' h' g' f' " vj g' g' u' c' p' f' ctf 0'

**Hchwt g** o gpcu' h' q' c' f' " h' g' h' w' u' c' n' " d' t' g' c' m' i' c' g' . " q' t' " u' g' r' c' t' e' v' k' p' qh' " e' q' o' r' q' p' g' p' v' r' c' p' u' 0' N' q' c' f' " t' g' h' w' u' c' n' i' k' i' v' g' r' q' l' p' v' y j g' t' g' vj g' g' v' k' o' c' v' g' u' t' g' p' i' vj " k' u' i' z' e' g' g' f' 0'

**Hgg' h' c' m' o** gpcu' vj g' " c' e' v' qh' h' c' m' k' i' " d' g' h' t' g' c' r' g' t' u' q' p' c' n' h' m' i' c' t' t' g' u' w' u' ( ugo " d' g' i' k' p' u' v' q' " c' r' r' n' " h' q' t' e' g' v' q' " c' t' t' g' u' v' j' g' h' c' m' 0'

**Hgg' h' c' m' i' f' h' k' p' e' g** o gpcu' vj g' " x' g' t' v' e' c' n' f' k' u' r' m' e' g' o' gpv' qh' vj g' " h' c' m' i' c' t' t' g' u' w' c' w' e' j' o gpv' r' q' l' p' v' q' p' vj g' go r nq' { gg' u' / dqf { " d' g' n' / qt' " dqf { " j' ctpguu' d' g' y' g' p' vj g' q' p' u' g' v' qh' vj g' h' c' m' i' c' p' f' " h' w' u' / d' g' h' t' g' vj g' u' ( ugo " d' g' i' k' p' u' v' q' " c' r' r' n' " h' q' t' e' g' v' q' " c' t' t' g' u' v' j' g' h' c' m' 0' Vj k' u' f' k' n' c' p' e' g' " g' z' e' n' f' g' u' f' g' e' g' n' g' t' v' k' p' f' k' n' c' p' e' g. " cpf " h' k' g' k' p' g' u' l' rcp { ctf " g' n' p' i' cvkp. " d' w' l' p' e' n' f' g' u' c' p' { " f' g' e' g' n' g' t' v' k' p' f' f' g' x' l' e' g' u' k' f' g' f' k' n' c' p' e' g' q' t' " u' g' h' / t' g' t' c' v' k' p' i " h' k' g' k' p' g' l' " rcp { ctf " g' z' v' g' u' k' p' u' d' g' h' t' g' vj g' f' " q' r' g' t' c' v' g' " cpf " h' m' i' c' t' t' g' u' w' h' q' t' e' g' u' q' e' e' w' 0'

**I wctft c' h' l' i' u' g' o** o gpcu' c' " d' e' t' t' l' g' t' " g' t' g' e' v' g' f' " v' q' r' t' g' x' g' p' v' go r nq' { ggu' h' t' q' o " h' c' m' k' i' " v' q' h' u' y' g' t' " h' x' g' n' u' 0'

**J qig o** gpcu' c' " i' cr " qt' " x' q' l' f' " 4' l' p' e' j' g' u' \* 70' h' e' o " + qt' " o q' t' g' " k' p' " k' u' i' g' c' u' f' k' o' g' p' u' k' p. " lp' " c' h' q' q' t. " l' q' q' h' " qt' " q' vj g' t' y' c' m' k' pi " l' y' q' t' n' k' pi " u' w' t' h' c' e' g' 0'

**Kp' l' e' c' u' d' i' g** o gpcu' vj cv' k' / ku' l' o " r' q' u' i' k' d' n' g' " v' q' r' g' t' h' q' to " vj g' e' q' p' u' t' v' e' v' k' p' y' q' t' n' i' w' k' p' i " c' " e' q' p' x' g' p' v' k' p' c' n' i' h' c' m' i' r' t' q' v' g' e' v' k' p' u' ( ugo " u' " \* k' g' 0' ) " v' c' t' f' t' c' k' l' u' u' ( ugo 0' " u' e' h' g' v' " p' g' v' u' ( ugo " . " qt' " r' g' t' u' q' p' c' n' h' m' i' c' t' t' g' u' w' u' ( ugo " + qt' " vj cv' k' / ku' v' e' j' p' q' m' i' l' e' c' m' " k' o " r' q' u' i' k' d' n' g' " v' q' w' u' g' c' p' { " q' p' g' qh' vj g' u' g' u' ( ugo u' v' q' r' t' q' x' l' f' g' h' c' m' i' r' t' q' v' g' e' v' k' p' 0'

**Nep { ctf o** gpcu' c' " h' g' z' k' d' n' g' " h' k' p' g' qh' t' q' r' g' 0' y k' g' t' q' r' g' 0' qt' " utrcr " y j lej " i' " g' p' g' t' c' m' f' " j' cu' c' " e' q' p' p' g' e' v' t' c' v' g' c' e' j' " g' p' f' " h' q' t' " e' q' p' p' g' e' v' k' pi " vj g' dqf { " d' g' n' / qt' " dqf { " j' ctpguu' v' q' c' " f' g' e' g' n' g' t' v' k' p' f' f' g' x' l' e' g' . " h' k' g' k' p' g. " qt' " c' p' e' j' q' t' c' i' g' 0'

**Ngc' f' k' pi " g' f' i' g** o gpcu' vj g' g' f' i' g' qh' c' " h' q' q' t. " t' q' q' h' " qt' " h' q' to y q' t' n' i' h' q' t' " c' " h' q' q' t' " qt' " q' vj g' t' y' c' m' k' pi " l' y' q' t' n' k' pi " u' w' t' h' c' e' g' " u' w' e' j' " cu' vj g' f' g' e' m' y' j' lej " e' j' c' p' i' g' u' h' q' e' c' v' k' p' " cu' " c' f' f' k' l' q' p' c' n' i' h' q' q' t. " t' q' q' h' " f' g' e' n' k' pi. " qt' " h' q' to y q' t' n' i' u' g' e' v' k' p' u' c' t' g' r' r' m' e' g' f. " h' q' to g' f. " qt' " e' q' u' p' u' t' w' e' g' f' 0' C' " n' g' c' f' k' pi " g' f' i' g' " ku' " e' q' u' k' f' g' t' g' f' " v' q' " d' g' " c' p' " o' w' p' r' t' q' v' e' g' f' " u' k' f' g' " c' p' f' " g' f' i' g' o' " f' w' t' k' pi " r' g' t' k' f' u' " y j gp' " k' s' " ku' " p' q' v' " c' e' v' k' g' n' " c' p' f' " e' q' p' v' k' p' w' u' u' " v' p' f' g' t' " e' q' u' p' u' t' v' e' v' k' p' 0'

**Nkgkpg' b** gpcu' c' " e' q' o' r' q' p' g' p' v' e' q' u' k' n' k' pi " qh' c' " h' g' z' k' d' n' g' " h' k' p' g' h' q' t' " e' q' p' p' g' e' v' k' p' v' q' " c' p' " c' p' e' j' q' t' c' i' g' c' v' q' v' g' p' f' " v' q' j' c' p' i " x' g' t' v' e' c' n' f' " x' g' t' v' e' c' n' f' h' k' g' k' p' g' + " qt' " h' q' t' " e' q' p' p' g' e' v' k' p' v' q' " c' p' e' j' q' t' c' i' g' u' c' v' d' q' j' " g' p' f' u' " v' q' " u' w' e' j' " j' q' t' k' q' p' v' c' m' f' " j' q' t' k' q' p' v' c' n' i' h' k' g' k' p' g' + " c' p' f' " y j lej " u' g' t' x' g' u' c' u' c' o' gpcu' h' q' t' " e' q' p' p' g' e' v' k' pi " q' vj g' t' " e' q' o' r' q' p' g' p' v' qh' c' r' g' t' u' q' p' c' n' i' h' c' m' i' c' t' t' g' u' w' u' ( ugo " v' q' j' g' c' p' e' j' q' t' c' i' g' 0'

**Nqy / u' u' q' r' g' t' q' q' h** o gpcu' c' " t' q' q' h' j' c' x' k' pi " c' " u' n' q' r' g' " g' u' u' v' j' c' p' " qt' " g' s' w' c' n' i' k' v' " 6' " lp' " 34' " \* x' g' t' v' e' c' n' f' v' j' q' t' k' q' p' v' c' n' f' 0'

**Nqy g' t' h' x' g' u' b** o gpcu' vj q' u' g' " c' t' g' c' u' " qt' " u' w' t' h' e' g' u' v' q' y j lej " c' p' " go r nq' { gg' " e' c' p' " h' c' m' 0' Uwe' " c' t' g' c' u' " qt' " u' w' t' h' e' g' u' k' p' e' n' f' g' . " d' w' " c' t' g' " p' q' v' i' k' o' k' e' g' " v' q' . " i' t' q' w' p' f' " h' x' g' u. " h' q' u' t' u. " r' u' e' h' q' to u. " t' c' o' r' u. " t' w' y' c' { u. " g' z' e' c' x' v' k' p' u. " r' k' u. " v' c' p' n' u. " o' c' v' g' t' c' k' n' " y' c' v' g' t. " g' s' v' k' r' o' g' p' v' " u' w' t' w' e' w' t' g' u. " q' t' " r' q' t' v' k' p' u' v' j' g' t' g' k' f' 0'



## Fall Protection

*Ogej cplecn'gs wko gpv* o gcpu' cni' o qvqt' qt' j wo cp' r tqr gnef' y j gnegf' gs wko o gpv'wuef' hqt' l'qqlhpi' y qtnl'ogzevr' y j gnegdctqy u'cpf' b qrectuol'

*Orgpklpi' b* o gcpu' c' i cr' qt' xqkf' 52' l'kej gu' \*98' eo +qt' o qtg' j k j cpf' 3: " l'kej gu' \*6: " eo +qt' o qtg' y kf g. " kp' c' y cni' qt' r ctvskqp. " y tqwi j " y j lej " go r niq{ ggu'ecp' hcm'v' c' niy gt' l'xgxl' }

*Qxgt j cpf' d'klemc' l'pi' "cpf' t'grv' y qtm* o gcpu' y j g' r tqeguu' qh' r' l'pi' " dtlemi' c' p' o cuqpt{ " vpxu' uwe j " y cv' y j g' uwtcheg' qh' y j g' y cni' v' q' dg' l'qkp' v' f' ku' " qp' y j g' qrr' quks' g' u'kf' g' qh' y j g' y cni' l' t' qo " y j g' o cuqp. " tgs wklpi' " y j g' o cuqp' v' q' " rncp' q' xgt' " y j g' y cni' v' q' eqo r r' g' v' y j g' y qtnl' T' g' r' v' f' " y qtnl' k' p' en' f' gu' o cuqp' " v' p' f' l'pi' " c' p' f' " g' g' v' t' c' e' n' i' l' p' u' c' n' t' v' k' p' l' k' p' e' q' r' t' c' v' e' f' " l' p' v' q' " y j g' d' t' l' e' n' i' y' c' n' i' f' w' k' p' i' " y j g' x' q' g' t' j' c' p' f' " d' t' l' e' m' i' " l' p' i' " r' t' q' e' g' u' u' }

*Rgtuqpcnl'cl'nt'gt'gu' l'f' ugo* o gcpu' c' u' l' ugo " wuef' v' q' c' t' t' g' u' n' c' p' go r niq{ g' g' l' p' c' " hcm' l' t' qo " c' y' qtnlpi' " r' e' x' g' n' l' k' e' p' p' u' k' u' u' q' h' i' c' p' c' p' e' j' q' t' c' i' g' " e' a' p' p' g' e' v' q' t' u' " c' " d' q' f' { " d' g' n' q' t' " d' q' f' { " j' c' t' p' g' u' u' " c' p' f' " o c' l' " k' p' e' n' f' g' c' " n' p' { c' t' f' " f' g' e' g' n' t' c' v' k' p' " f' g' x' l' e' g' " r' h' e' g' n' p' g' " q' t' " u' w' k' s' c' d' n' g' " e' q' o d' l' p' c' v' k' p' u' " q' h' i' y' g' u' e' g' O' C' u' q' h' l' c' p' w' c' t' { " 3: " 3: ; ; . " y j g' " w' u' e' g' " q' h' i' c' " d' q' f' { " d' g' n' h' q' t' " h' c' m' i' t' t' g' u' n' k' u' r' t' q' j' k' l' k' e' g' f' }

*Rquklpklpi' f' g' x' l' e' g' u' l' ugo* o gcpu' c' " d' q' f' { " d' g' n' q' t' " d' q' f' { " j' c' t' p' g' u' u' " u' l' ugo " t' l' i' i' g' f' " v' q' " c' m' y' " c' p' " go r niq{ g' g' " v' q' " d' g' " u' w' r' q' t' v' g' f' " q' p' " c' p' " g' r' e' x' c' v' g' f' " x' g' t' v' e' c' n' i' " u' w' t' h' e' g' " u' w' e' j' " c' u' c' y' c' m' " c' p' f' " y' q' t' n' i' y' k' j' " d' q' y' " j' c' p' f' u' l' t' g' g' y' j' k' e' g' h' e' c' p' l' p' i' }

*Tqrg' i' t' c' d' o* gcpu' c' " f' g' e' g' n' t' c' v' k' p' " f' g' x' l' e' g' " y j lej " v' t' c' x' g' n' i' " q' p' c' " r' h' e' g' n' p' " c' p' f' " c' w' q' o c' v' e' c' n' i' " d' l' { " h' t' e' v' k' p' " g' p' i' c' u' i' g' u' j' g' " r' h' e' g' n' p' g' " c' p' f' " m' e' m' i' u' q' " c' u' v' k' " c' t' t' g' u' n' y' j' g' " h' c' m' i' q' h' i' c' p' " go r niq{ g' g' O' C' " l' q' r' g' i' t' c' d' " w' u' e' c' n' i' " go r niq{ u' v' j' g' r' t' l' p' e' k' e' r' g' " q' h' i' k' p' e' t' v' e' c' n' i' " m' e' m' p' i' . " e' c' o " l' e' x' g' n' i' t' e' m' p' i' . " q' t' " d' q' y' }

*Tqql' b* o gcpu' y j g' z' v' g' t' k' q' t' " u' w' t' h' e' g' " q' p' " y j g' " q' r' " q' h' i' c' " d' w' k' f' l' p' i' O' V' j' k' u' f' q' g' u' p' q' v' l' k' e' n' f' g' " h' q' q' u' t' " q' t' " h' q' t' o y qtni' y j lej . " d' g' e' c' w' u' e' g' " c' " d' w' k' f' l' p' i' " j' c' u' " p' q' v' d' e' g' g' " e' q' o r r' e' g' v' e' f' . " g' o r q' t' c' t' k' l' " d' g' e' q' o g' y j g' " q' r' " u' w' t' h' e' g' " q' h' i' c' " d' w' k' f' l' p' i' }

*Tqqlhpi' y qtm* o gcpu' y j g' j' q' l' n' k' p' i' . " u' n' q' t' i' c' g' " c' r' r' d' e' c' v' k' p' . " c' p' f' " t' g' o q' x' c' n' i' q' h' i' t' q' q' l' h' p' i' " o c' v' e' t' k' e' n' i' c' p' f' " g' s' w' k' o g' p' v' o' l' k' e' n' f' l' p' i' " t' g' r' e' v' f' " l' p' u' w' e' v' k' p' . " u' j' g' g' v' o' g' e' c' n' i' " c' p' f' " x' c' r' q' t' " d' c' t' t' k' e' t' " y' q' t' m' d' w' b' p' v' l' k' e' n' f' l' p' i' " y j g' " e' q' u' p' u' t' v' e' k' p' " q' h' i' y' g' t' q' q' h' i' t' g' e' n' l' }

*Uch'v' l' o q' p' h' q' t' l' p' i' u' l' ugo* o gcpu' c' " u' c' h' e' v' " u' l' ugo " l' p' " y j lej " c' " e' q' o r g' e' g' p' v' r' g' t' u' q' p' " k' u' " t' g' u' r' q' p' u' k' i' n' g' " h' q' t' " t' g' e' q' i' p' k' l' p' i' " c' p' f' " y' c' t' p' l' p' i' " go r niq{ g' g' u' " q' h' i' c' h' c' m' i' j' c' l' c' t' f' u' }

*Ugh' t' g' t' c' v' k' p' i' " h' e' g' n' p' g' h' e' p' { c' t' f' o* gcpu' c' " f' g' e' g' n' t' c' v' k' p' " f' g' x' l' e' g' " e' a' p' p' c' v' k' p' l' p' i' " c' " f' t' w' o / y' q' w' p' f' " r' h' p' g' " y j lej " e' c' p' " d' g' " u' n' y' n' l' " g' z' v' t' c' e' v' g' f' " l' t' q' o . " q' t' " t' g' t' c' e' v' g' f' " q' p' v' q' . " y j g' f' t' w' o " w' p' f' g' t' " u' k' i' j' v' l' " e' p' u' k' p' " f' w' t' l' p' i' " p' q' t' o c' n' i' g' o r niq{ g' g' o q' x' g' o g' p' v' " c' p' f' " y j lej . " c' h' e' g' t' " q' p' u' g' v' q' h' i' c' " h' c' m' " c' w' q' o c' v' e' c' n' i' " m' e' m' i' y' j' g' f' t' w' o " c' p' f' " c' t' t' g' u' u' " y j g' " h' c' m' l' }

*U'p' c' r' j' q' q' m' o* gcpu' c' " e' a' p' p' g' e' v' q' t' " e' q' o r t' k' e' g' f' " q' h' i' c' j' " q' q' m' i' u' j' c' r' g' f' " o g' d' g' t' y' j' k' j' " c' " p' q' t' o c' n' i' " e' n' i' q' u' e' f' " n' e' g' r' g' t' . " q' t' " u' k' o k' e' t' " c' t' t' c' p' i' g' o g' p' v' " y j lej " o c' l' " d' g' " q' r' g' p' e' g' f' " w' " r' g' t' o k' v' y j g' j' q' q' m' i' u' j' " t' g' e' k' g' c' p' " q' d' l' g' e' v' c' p' f' . " y j g' p' " t' g' r' e' c' u' g' f' . " c' w' q' o c' v' e' c' n' i' " e' n' i' q' u' e' v' k' i' t' v' c' l' p' y j g' q' d' l' g' e' o' U' p' c' r' j' q' q' m' i' u' j' c' r' g' f' " g' p' t' c' m' l' " q' p' g' q' h' i' y' q' v' l' r' g' u' e' }

**1926.500(b)(1)** " Vj g' m' n' e' m' p' i' " v' l' r' g' y' k' j' " c' " u' g' r' h' e' m' u' k' p' i' . " u' g' r' h' e' m' n' e' m' p' i' " n' e' g' r' g' t' " y j lej " t' g' o c' l' p' u' " e' n' i' q' u' e' f' " c' p' f' " m' e' g' e' n' t' " v' p' w' k' i' v' n' i' q' e' n' g' f' " c' p' f' " r' t' g' u' e' g' f' " q' r' g' p' " h' q' t' " e' a' p' p' g' e' v' k' p' " q' t' " f' k' e' a' p' p' g' e' v' k' p' = q' t' "

**1926.500(b)(2)** " Vj g' p' p' q' p' / m' e' n' k' p' i' " v' l' r' g' y' k' j' " c' " u' g' r' h' e' m' u' k' p' i' " n' e' g' r' g' t' " y j lej " t' g' o c' l' p' u' " e' n' i' q' u' e' f' " v' p' w' k' i' r' t' g' u' e' g' f' " q' r' g' p' " h' q' t' " e' a' p' p' g' e' v' k' p' " q' t' " f' k' e' a' p' p' g' e' v' k' p' O' C' u' q' h' i' l' c' p' w' c' t' { " 3: " 3: ; ; . O' y j g' " w' u' e' g' " q' h' i' c' " p' a' p' / m' e' n' k' p' i' " u' p' c' r' j' q' q' m' i' c' u' r' c' t' v' q' h' i' r' g' t' u' a' p' c' n' i' h' c' m' i' c' t' t' g' u' n' u' l' ugo u' c' p' f' " r' q' u' k' s' k' p' l' p' i' " f' g' x' l' e' g' u' l' ugo u' l' k' u' r' t' q' j' k' l' k' e' g' f' }

*U'g' g' r' l' q' q' h' o* o gcpu' c' " t' q' q' h' i' j' c' x' l' p' i' " c' " u' n' q' r' g' i' t' g' e' v' g' t' " y j c' p' 6" l' p' 34" \* x' g' t' v' e' c' n' i' " v' q' j' q' t' k' q' p' c' n' i' }

*V' q' g' d' q' c' t' f' " o* gcpu' c' " n' y' " r' t' q' v' e' k' s' g' d' d' c' t' t' k' e' t' " y j cv' y k' n' i' r' t' g' x' g' p' v' y j g' " h' c' m' i' q' h' i' o c' v' e' t' k' e' n' i' c' p' f' " g' s' w' k' o g' p' v' v' q' " n' y' g' t' " r' e' x' g' n' i' c' p' f' " r' t' q' x' k' f' g' r' t' q' v' e' k' p' " l' t' q' o " h' c' m' i' " h' q' t' " r' g' t' u' a' p' p' e' n' l' }

*W' p' r' t' q' v' e' g' f' l' k' f' g' u' l' e' p' f' k' f' i' g' u' o* gcpu' c' p' l' " u' k' f' g' q' t' " g' f' i' g' " \* g' z' e' g' r' v' c' v' g' p' v' t' c' p' e' g' u' " v' q' t' r' q' l' p' u' v' q' h' i' c' e' g' u' u' " q' h' i' c' y' c' m' k' p' i' l' y' q' t' n' k' p' i' " u' w' t' h' e' g' . " g' l' O' h' u' q' t' . " t' q' q' h' t' e' o r . " q' t' " t' w' p' y' c' l' " y j g' t' g' y j g' t' g' " k' u' p' q' y' c' n' i' q' t' " i' w' c' t' f' c' k' i' u' l' ugo " c' v' l' e' c' u' v' 5: " l' k' e' j' g' u' \* 30 " o + j' k' i' j' }

*Y' c' m' p' i' l' y' q' t' n' k' p' i' " u' w' t' h' e' g' " o* gcpu' c' p' l' " u' w' t' h' e' g' . " y j g' y j g' t' " y j q' t' k' q' p' v' c' n' i' " q' t' " x' g' t' v' e' c' n' i' a' p' " y j lej " c' p' " go r niq{ g' g' y' c' m' i' q' t' " y' q' t' m' i' " u' w' t' h' e' g' . " d' w' b' p' q' v' i' n' k' o k' e' g' f' " v' q' . " h' u' q' t' u' " t' q' q' u' " t' e' o r u' . " d' t' k' i' g' u' " t' w' p' y' c' l' u' " h' q' t' o y qtni' c' p' f' " e' q' e' t' g' e' " t' g' l' p' h' e' t' e' p' i' " u' g' g' n' i' d' w' b' p' q' v' l' k' e' n' f' l' p' i' " m' e' f' g' t' u' " x' g' j' l' e' n' u' " q' t' " v' t' c' k' e' t' u' " q' p' " y j lej " go r niq{ g' g' u' o w' u' d' g' " u' e' c' e' v' g' f' " l' p' " q' t' f' g' t' " q' r' g' t' h' q' t' o " y j g' k' l' q' d' " f' w' k' e' u' }

*Y' c' t' p' l' p' i' " h' p' g' l' u' l' ugo* o gcpu' c' " d' c' t' t' k' e' t' " g' t' e' v' g' f' " q' p' " c' l' t' q' q' h' i' v' y' c' t' p' " go r niq{ g' g' u' y' c' v' y j g' l' " c' t' g' " c' r' r' t' q' c' e' j' k' p' i' " c' p' " w' p' r' t' q' v' e' g' f' " t' q' q' h' i' k' f' g' q' t' " g' f' i' g' . " c' p' f' " y j lej " f' g' u' k' i' p' e' v' u' c' p' " c' t' g' c' " l' p' " y j lej " t' q' q' h' i' p' i' " y' q' t' n' i' o c' l' " u' c' m' g' " r' n' e' e' g' y' k' j' q' w' v' y j g' " w' u' e' g' " q' h' i' w' c' t' f' t' c' k' i' u' d' q' f' { " d' g' n' o' q' t' " u' c' h' e' v' l' " p' e' v' l' u' u' g' o u' v' q' r' t' q' v' e' v' g' o r niq{ g' g' u' k' p' y j g' " c' t' g' c' f' }

*Y' q' t' n' i' k' t' g' c' o* gcpu' y j cv' t' q' t' v' k' p' " q' h' i' c' y' c' m' k' p' i' l' y' q' t' n' k' p' i' " u' w' t' h' e' g' y j g' t' g' l' q' d' " f' w' k' e' u' c' t' g' " d' e' l' p' i' " r' g' t' h' q' t' o g' f' }

\*7: " H' i' " 629520 C' w' i' 0: . 3: ; ; 6: " c' u' c' o g' p' f' g' f' " c' v' 82 " H' i' " 5: 477: " C' w' i' 04: " 3: ; ; 7: + "

**△** *Ecwklap' < Uwdrc' t' v' O' " C' w' j' q' t' k' f' " c' p' f' " 4: " C' F' R' U' g' e' 0' 3: 480' 22' " j' c' x' g' d' e' g' g' " c' o g' p' f' g' f' . " g' h' l' e' v' k' s' g' L' m' f' " 17, 4223' (66 H' i' " 73: 7: " L' c' p' 3: . " 4223-0' V' j' g' l' e' o g' p' f' g' f' " x' g' t' u' k' p' " e' r' r' g' e' t' u' d' g' u' y' 0' / E' E' J' 0' " " "*

**△** *" Ecwklap' < D' { " O' g' o q' t' c' p' f' w' o " q' h' i' y' g' R' t' g' u' k' f' g' p' v' . " y j g' T' g' i' w' e' v' i' t' { " T' g' d' e' y' " r' e' p' " c' r' r' i' g' u' i' q' " y j g' U' g' g' n' i' G' t' e' v' k' p' " U' c' p' f' c' t' f' 0' V' j' g' l' u' c' p' f' c' t' f' j' u' l' g' h' l' e' v' k' s' g' f' c' w' g' j' c' u' l' d' g' g' " f' g' e' { g' f' " 82' f' c' { u' l' c' p' f' " y j g' l' u' c' p' f' c' t' f' k' u' p' q' y " g' h' l' e' v' k' s' g' l' e' u' q' h' i' U' g' r' v' g' o d' g' t' " 39: " 42230' " Authority: " U' g' e' 0' 3290' E' a' p' u' c' e' v' " Y' q' t' n' i' J' q' w' u' " c' p' f' " U' c' h' e' v' l' " U' c' p' f' c' t' f' u' " C' e' v' " \* E' a' p' u' t' v' e' k' p' " U' c' h' e' v' l' " C' e' v' i' " \* 62 " W' L' U' E' 0555 = U' g' e' 06: " 8: . " . " Q' e' e' w' r' c' v' k' p' c' n' i' U' c' h' e' v' l' c' p' f' " J' g' e' n' j' " C' e' v' i' q' h' i' 3: 92 " \* 4: " " W' L' U' E' 0875: " 877: " 879 + c' " U' g' e' t' g' v' c' t' { " q' h' i' N' e' d' q' t' u' " Q' t' f' g' t' u' " P' q' u' 0' 3: / 2 " \* 7 " H' i' " ; 255 + : " 8: " 8 " \* 84 " H' i' " 333 = c' p' f' " 5 / 4222 " \* 87 " H' i' " 72239 + : " c' u' c' r' r' d' e' c' d' n' g' . " c' p' f' " 4: " E' H' i' " R' e' t' v' 3: 330' " Source: " " H' i' " 62952: " C' w' i' 0 " ; . 3: ; ; 6: " v' p' r' u' u' q' y j g' t' y k' u' g' " p' q' v' e' f' 0' C' o g' p' f' g' f' " 88 " H' i' " 73: 7: " L' c' p' 03: . " 42230' " " "*

### §1926.500 Scope, application, and definitions applicable to this subpart.

**1926.500(a) U' e' q' r' g' e' p' f' e' r' r' i' d' e' c' v' k' p' 0' 3: +** Vj k' u' l' u' d' r' c' t' v' l' u' g' u' l' q' t' v' j' " t' g' s' w' k' t' g' o g' p' u' c' p' f' " e' t' k' e' t' i' c' l' " h' q' t' " h' c' m' i' r' t' q' v' e' k' p' " l' p' " e' a' p' u' t' v' e' k' p' y' q' t' n' r' e' g' u' l' e' x' g' t' g' f' " w' p' f' g' t' 4: " E' H' i' " r' c' t' v' 3: 480' G' z' e' g' r' v' k' p' < Vj g' r' t' q' x' k' k' p' u' " q' h' i' y' k' u' l' u' d' r' c' t' v' f' q' " p' q' v' c' r' r' n' l' " y j g' p' " go r niq{ g' g' u' " c' t' g' o c' n' k' p' i' " c' p' " l' p' u' r' g' e' v' k' p' . " l' p' x' g' u' k' i' c' v' k' p' . " q' t' " c' u' e' g' u' o g' p' v' q' h' i' y' q' t' n' i' r' n' e' e' g' e' q' p' f' k' k' p' u' " r' t' k' t' " v' q' y j g' " c' e' w' c' n' i' u' c' t' v' q' h' i' e' a' p' u' t' v' e' k' p' y' q' t' n' i' q' t' " c' h' e' g' i' " c' m' i' e' a' p' u' t' v' e' k' p' y' q' t' n' i' j' c' u' " d' e' g' g' p' " e' q' o r r' e' g' v' e' f' }

**1926.500(a)(2)** U' g' e' v' k' p' " 3: 480' 23" u' g' u' " h' q' t' y' " y j q' u' e' " y' q' t' n' r' n' e' g' u' " e' q' p' f' k' k' p' u' . " q' r' c' v' k' p' u' " c' p' f' " e' k' t' e' w' o u' c' p' e' g' u' " h' q' t' " y j lej " h' c' m' i' r' t' q' v' e' k' p' " u' j' c' n' i' d' g' r' t' q' x' k' f' g' " g' z' e' g' r' v' c' u' l' h' u' n' y' u' <

**1926.500(a)(2)(i)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " y' q' t' n' k' p' i' " q' p' " u' e' c' t' h' q' r' u' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' N' q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(2)(ii)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " y' q' t' n' k' p' i' " q' p' " e' g' t' v' c' l' p' " e' t' c' p' u' c' p' f' " f' g' t' t' k' e' m' i' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' P' " q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(2)(iii)** h' c' m' i' r' t' q' v' e' k' p' u' " t' g' s' w' k' t' g' o g' p' u' " h' q' t' " go r niq{ g' g' u' r' g' t' h' q' t' o k' p' i' " u' e' g' g' n' i' g' t' e' v' k' p' " y' q' t' n' i' " g' z' e' g' r' v' " h' q' t' " v' q' y' g' t' u' " c' p' f' " v' c' p' m' i' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' T' " q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(2)(iv)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " y' q' t' n' k' p' i' " q' p' " e' g' t' v' c' l' p' " v' l' r' g' u' q' h' i' g' s' w' k' o g' p' v' w' u' e' f' " l' p' " w' a' p' p' g' r' k' p' i' " q' r' g' t' c' v' k' p' u' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' U' q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(2)(v)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " g' p' i' c' i' g' f' " l' p' " y j g' " g' t' g' e' v' k' p' " q' h' i' c' p' m' i' c' p' f' " e' q' o o w' l' e' c' v' k' p' " c' p' f' " d' t' q' c' f' e' c' u' v' " v' q' y' g' t' u' c' t' g' " r' t' q' x' k' f' g' f' " l' p' " E' 3: 480' 270' }

**1926.500(a)(2)(vi)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " g' p' i' c' i' g' f' " l' p' " y j g' " e' a' p' u' t' v' e' k' p' " q' h' i' g' r' e' v' e' l' e' " v' c' p' u' o k' u' l' k' p' " c' p' f' " f' k' u' t' k' d' w' k' p' " r' h' p' g' u' " c' p' f' " g' s' w' k' o g' p' v' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' X' " q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(2)(vii)** T' g' s' w' k' t' g' o g' p' u' " t' g' r' e' v' k' p' i' " v' q' " h' c' m' i' r' t' q' v' e' k' p' " h' q' t' " go r niq{ g' g' u' " y' q' t' n' k' p' i' " q' p' " u' e' k' y' c' l' u' c' p' f' " t' e' f' f' g' t' u' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' Z' " q' h' i' y' k' u' r' c' t' u' }

**1926.500(a)(3)** U' g' e' v' k' p' " 3: 480' 24' u' g' u' " h' q' t' y' " y j g' t' g' s' w' k' t' g' o g' p' u' " h' q' t' " y j g' " l' p' u' e' c' n' i' c' v' k' p' o' e' a' p' u' t' v' e' k' p' o' c' p' f' " r' t' q' r' g' t' " w' u' e' g' " q' h' i' c' m' i' r' t' q' v' e' k' p' " t' g' s' w' k' t' g' o g' p' u' " d' { " r' c' t' v' 3: 48: " g' z' e' g' r' v' c' u' " h' u' n' y' u' <

**1926.500(a)(3)(i)** R' e' g' t' h' q' t' o c' p' e' g' " t' g' s' w' k' t' g' o g' p' u' " h' q' t' " i' w' c' t' f' t' c' k' i' u' u' l' ugo u' o " w' u' e' f' " q' p' " u' e' c' t' h' q' r' u' c' t' g' r' t' q' x' k' f' g' f' " l' p' " u' w' d' r' c' t' v' N' q' h' i' y' k' u' r' c' t' u' }







## Fall Protection

**Tqrg'i tcd** "o gcpu" c "f gegngt cvkp" f gxleg" y j lej "vtxgnu" qp "c" rñgkp g" cpf " cwqo cvecmf. "d{ "hlevkp. "gpi ci gu" vj g' rñgkp g" cpf "ñemu" uq "cu" vq "cttguv" vj g' hcm' qh' cp" go r nq { gg0C "tqr g" i tcd "wuxcmf" "go r nq { u" vj g' r tlpel r g' qh' lpgt vcl' nqenki 0eco lñxgrñqenki 0qat "dqy 0"

**Tqqh'** b gcpu" vj g' g'zvgtkl' "uwhceg" qp" vj g' qvr "qh' c" dwkf lpi 0' Vj ku' f qgu' pqv' lpenwf g' hqqtu' qt" hqto y qtnf y j lej 0' dgecvwg" c" dwkf lpi " j cu" pqv' dggp" eqo r rñvgf. "go r qtctkl' "dgeqo g' vj g' qvr "uwhceg" qh' c' dwkf lpi 0"

**Tqqh' lpi** " y qtnf o gcpu" vj g' j qnkpi 0' Uqtc i g. " cr rñecvqp. " cpf " tgo qxcn' qh' tqqlpi " o cvgtkcn' cpf " gs vkr o gpv 0 lpenwf lpi " tgrcvf " lpuwcvkp. " ujj ggv' o gvcn" cpf " xcr qt " dcttktg' y qtm' dw' bpq v' lpenwf lpi " eqpntwcvkp' qh' vj g' tqqlh' f gen0

**Uchgv/ o qphqtkpi "u'ngo** " o gcpu" c " uchgv " u' ugo " lp" y j lej " c" eqo r gvgpv' r gtuvp' ku' tguv quidng' hqt" tgeqi pk lpi " cpf " y ctpkpi " go r nq { ggu" qh' hcm' j c| ctf u0"

**Ugh' tgvcevpki "ññgkp ghcp/ ctf** " o gcpu" c " f gegngt cvkp" f gxleg" eqpvcplpi " c" f two / y qwpf "ñkp" y j lej " ecp" dg" uuy n{ " g' ztcevfg " hqo. " qt' tgvcevgf " qpqv. " vj g' f two " wpf gt" uki j v' " gpubkp" f vlpki " pqto cñ' go r nq { gg" o qxgo gpv" cpf " y j lej 0' chgt " apugv' qh' c" hcm' cwqo cvecmf "ñemu" vj g' f two " cpf " cttguv" vj g' hcm0

**Uperj qqmo** gcpu" c " eqppgevqt " eqo r tluvg " qh' c" j qnm' uij cr gf " o go dgt" y kj " c" pqtto cñ' " enuqgf " ngr gt. " qt' uko kct" cttcpi go gpv" y j lej " o c{ " dg" qr gpgf " vq" r gto k' vj g' j qnm' vq" tgegxg" cp" qdlgev' cpf " y j gp" tgrcvuf. " cwqo cvecmf " enuquv' vq' tgvcl' vj g' qdlgev0 Uperj qnm' ctg' i gpgtcmf " qp' qh' v' q' v' r gu<

**1926.500(b)(1)** Vj g" rñenki " v{ r g" y kj " c" ugh' enuqki. " ugh' rñenki " ngr gt" y j lej " tgo clpu' enuqf " cpf " rñengf " wvki' wvñengf " cpf " r tguvgf " qr gp" hqt" eqppgevqp' qt' f lueqppgevqp< q't"

**1926.500(b)(2)** Vj g" pqp/ rñenki " v{ r g" y kj " c" ugh' enuqki " ngr gt" y j lej " tgo clpu' enuqf " wvki' r tguvgf " qr gp" hqt" eqppgevqp' qt' f lueqppgevqp0 Cu' qh' lcpvct { " n3; : : " vj g' wug' qh' c" pqp/ rñenki " upcr j qnm' cu' r ctv' qh' r gtupcn' hcm' cttguv' u' ugo u' cpf " r quklqplpi " f gxleg' u' ugo u' ku' r tqj kdkgf 0

**Uggr 'tqqh** o gcpu" c " tqqlh' j cxlpi " c" uuxr g' i tgcvg' y j cp" 6" lp" 34" xgt vclcn' vq" j qtk qpvcn0

**Vqgdqctf** " o gcpu" c "ñy " r tqvexg' dcttktg' vj cv' y knr tgv' vj g' hcm' o cvgtkcn' cpf " gs vkr o gpv' vq" ñy gt " rñxgn" cpf " r tqxkf g" r tqvexqp" hqo " hcm" hqt" r gtuppgp0

**Wprt qvgevfg "ñf gu' c' pf' fgi gu'** b gcpu' cp { " ukf g' qt' gf i g" " gzevr v' cv' g' pvtcpgu" vq' r qlpv' qh' ceeguv' qh' c" y cmipl ly qtnki " uwhceg. " g0 0' hqqt. " tqqh' tco r. " qt" twpy c { " y j g' g' vj g' g' ku' p' q' v' cmiqt' i wctf tckñf ugo " cv' hcvu5; " lpej gu" \*302" o + j ki j 0

**Y cmipl ly qtnki " uwhceg** o gcpu" cp { " uwhceg0 y j g' vj gt" j qtk qpvcn' qt" xgt vclcn' qp" y j lej " cp" go r nq { gg" y cmiqt' y qtm0 lpenwf lpi. " dw' pqv' rko ksf" vq. " hqqtu. " tqqlu. " tco r u. " dñf i gu. " twpy c { u. " hqto y qtnf cpf " eqpetgvg" tglphqtelpi " uvggn' dw' pqv' lpenwf lpi " rñf f gtu. " xgj kengu. " qt' v' cktgtu" qp" y j lej " go r nq { ggu" b wuv' dg' hqcevfg " lp' qttf g' vq' r gthqto " vj gk' f wkuu"

**Y ctpkpi "ñp' l' ugo** " b gcpu" c " dcttktg' g' tgevfg " qp" c " tqqlh' vq" y ctp" go r nq { ggu" vj cv' vj g { " ctg" cr r tqcej lpi " cp" wprt qvgevfg " tqqlh' ukf g' qt' gf i g. " cpf " y j lej " f guki pcvgu' cp" ctgc" kp" y j lej " tqqlpi " o c { " vñg" r rñeg" y kj qw' vj g" wug' qh' i wctf tckñf dñf { " dñg. " qt' uchgv' p' gvu' ugo u' vq' r tqvexg' go r nq { ggu' kp' vj g' ctgc0

**Y qtm' ctgc** " o gcpu" vj cv' r qtvkp' qh' c" y cmipl ly qtnki " uwhceg" y j g' g' lqd" f wkuv' ctg' dñlpi " r gthqto gf 0" [7; " HT" 62952. " Cwi 0; .3; ; 6. " cu" co gpf gf " cv" 82" HT" 5; 477. " Cwi 04. " 33; 7. " cpf " cv" 88" HT" 73; 7" lcp03; . " 4223+ "

### §1926.501 Duty to have fall protection.

**1926.501(a) I gpgtci0** \*3+ " Vj ku' ugevkp" uguu" hqt vj " tgs vktgo gpv" hqt" go r nq { gtu' vq' r tqxkf g' hcm' r tqvexqp' u' ugo u0 Cmi hcm' r tqvexqp' tgs vktgf " d { " vj ku' ugevkp" u' cmi eqphqto " vq" vj g' etkgtkc " ugv" hqt vj " lp" E3; 480724" qh' vj ku' uwdr ctv0

"

**1926.501(a)(2)** Vj g" go r nq { gt" u' cmi' f gvgto kpg' kh' vj g" y cmipl ly qtnki " uwhcegu' qp" y j lej " ku' go r nq { ggu' cte" vq" y qtnf cxg' vj g' u' tgpji " vj cpf " u' wewt cñf l' pvej tsk { " vq' u' r qtv' go r nq { ggu' uchgn' 0Go r nq { ggu' u' cmi dg' cmy gf " vq" y qtnlqp" vj qvg" uwhcegu' apñf " y j gp" vj g" uwhcegu" j cxg" vj g" tgs vktgo u' tgpji vj " cpf " u' wewt cñf l' pvej tsk 0

**1926.501(b)(1)** **Wprt qvgevfg "ñf gu' c' pf" " fgi gu0** Gcej " go r nq { gg" qp" c" y cmipl ly qtnki " uwhceg" \*ñ qtk qpvcn' cpf " xgt vclcn' uwhceg+ y kj " cp" wprt qvgevfg " ukf g' qt' gf i g' y j lej " ku' 8' hggv" \*30 " o + qt" o qtg' cdqvg' c" ñy gt " rñxgn" u' cmi dg' r tqvexfg " hqo " hcmki " d { " vj g' wug' qh' i wctf tckñf u' ugo u0 uchgv' p' gvu' u' ugo u0 qt' r gtupcn' hcm' cttguv' u' ugo u0

**1926.501(b)(2) Ngefpki " fgi gu** \*k+ Gcej " go r nq { gg" y j q" ku' eqpntwcvkp " c" rñcf lpi " gf i g" 8' hggv" \*30 " o rñqt" o qtg' cdqvg' ñy gt " rñxgn" u' cmi dg' r tqvexfg " hqo " hcmki " d { " i wctf tckñf u' ugo u " uchgv' p' gvu' u' ugo u " qt' r gtupcn' hcm' cttguv' u' ugo u0 Gzevr v' kp< Y j gp" vj g' go r nq { gt " ecp" f go qpntcev' vj cv' k' ku' lphcukdg" qt' tgcvgu' c" i tgcvg' j c| ctf " vq" wug' vj g' u' u' ugo u. " vj g' go r nq { gt " u' u' cmi f g' xgnr " cpf " ko r ngo gpv' c" hcm' r tqvexqp" r rñp" y j lej " o ggu" vj g" tgs vktgo gpv' qh' r ctc/ i tcr j "ñññ qh' E3; 4807240

**Note:** Vj g' g' ku' c' r tguvo r v' kp" vj cv' k' ku' hgcukdg' cpf " y kni' pqv' tgcvg' c" i tgcvg' j c| ctf " vq" ko r ngo gpv' cv' hcvu' qp' g' qh' vj g' cdqvg' rñvgf " hcm' r tqvexqp' u' ugo u0 Ceeqt f lpi n{. " vj g" go r nq { gt" j cu" vj g" dw' f gp" qh' guvclñuj lpi " vj cv' k' ku' cr r tqv' tcvg' vq" ko r ngo gpv' c" hcm' r tqvexqp" r rñp" y j lej " eqo r rñgu" y kj " Eñ 480724"ñññ hqt' c' ct vclwrt' y qtnr rñeg' u' k' wcvkp. " lp' rñeg' qh' ko r ngo gpv' lpi " cp { " qh' vj qvg' u' ugo u0

**1926.501(b)(2)(ii)** " Gcej " go r nq { gg" qp" c" y cmipl ly qtnki " uwhceg" 8' hggv" \*ñ0 " o rñqt" o qtg' cdqvg' c" ñy gt " rñxgn" y j g' g' rñcf lpi " gf i gu' ctg' wpf gt " eqpntwcvkp. " dw' y j q" ku' pqv' gpi ci gf " lp" vj g' rñcf lpi " gf i g' y qtm" u' cmi dg' r tqvexfg " hqo " hcmki " d { " c' i wctf tckñf u' ugo. " uchgv' p' gvu' u' ugo. " qt' r gtupcn' hcm' cttguv' u' ugo 0' Kc' i wctf tckñf u' ugo. " ku' ej quvg' vq' r tqxkf g' vj g' hcm' r tqvexqp. " cpf " c' eqpntqmgf " ceeguv' qp' g' cu' ctgcf { " dggp" guvclñuj gf " hqt" rñcf lpi " gf i g' y qtm" vj g' eqpntqñf rñp" o c { " dg' wugf " lp" rñeg' qh' c" i wctf tckñf cmipl " vj g' gf i g' vj cv' r ctmgn. " vj g' rñcf lpi " gf i g0

**1926.501(b)(3) J qñu' t' gtu0** Gcej " go r nq { gg' kp' c" j qñu' ctgc" u' cmi dg' r tqvexfg " hqo " hcmki " 8' hggv" \*ñ0 " o + qt" o qtg' vq" ñy gt " rñxgn" d { " i wctf tckñf u' ugo u' qt" r gtupcn' hcm' cttguv' u' ugo u0 Kñ i wctf tckñf u' ugo u. "ñññ ej clp. " i cvg. " qt' i wctf tckñf " qt" r qtvkp" y j g' g' h" ctg" tgo qvgf " vq" hckñkcvg" vj g' j qnkpi " qr g' tcvkp" \*g0 0' f vlpki " rñpf lpi " o cvgtkcn. " cpf " cp" go r nq { gg" o wuv' rñcp" vj tqwi j " vj g' ceeguv' qr gplpi " qt" qw' vxgt" vj g' gf i g' qh' vj g' ceeguv' qr gplpi "ñññ tgegxg" qt' i wkf g" gs vkr o gpv' cpf o cvgtkcn. " hqt' g' zco r rñg+ vj cv' go r nq { gg' u' cmi dg' r tqvexfg " hqo " hcmj c| ctf u' d { " c' r gtupcn' hcm' cttguv' u' ugo 0"

**1926.501(b)(4) J qñu0** \*k+ Gcej " go r nq { gg" qp" y cmipl ly qtnki " uwhcegu' u' cmi dg' r tqvexfg " hqo " hcmki " vj tqwi j " j qñu" \*ñpenwf lpi " uñf rñi j w+ o qtg' vj cp" 8' hggv" \*30 " o + cdqvg" ñy gt " rñxgn. " d { " r gtupcn' hcm' cttguv' u' ugo u0 eqxgtu0 qt" i wctf tckñf u' ugo u' g' tgevfg " ctqwpf "ñvg" j qñu0"

**1926.501(b)(4)(ii)** Gcej " go r nq { gg" qp" c" y cmipl ly qtnki " uwhceg" u' cmi dg' r tqvexfg " hqo " vkr r lpi " kp" qt" uvr r lpi " kpqv" qt" vj tqwi j " j qñu" \*ñpenwf lpi " uñf rñi j w+ d { " eqxgtu0"

**1926.501(b)(4)(iii)** Gcej " go r nq { gg" qp" c" y cmipl ly qtnki " uwhceg" u' cmi dg' r tqvexfg " hqo " qdlgev' hcmki " vj tqwi j " dqñu" \*ñpenwf lpi " uñf rñi j w+ d { " eqxgtu0"

**1926.501(b)(5) Hqto y qtm' c' pf** " tglphqtelpi " uvggn0 Gcej " go r nq { gg" qp" vj g' hceg" qh' hqto y qtm' qt' tglphqtelpi " uvggn' u' cmi dg' r tqvexfg " hqo " hcmki " 8' hggv" \*30 " o + qt" o qtg' vq" ñy gt " rñxgn" d { " r gtupcn' hcm' cttguv' u' ugo u. " uchgv' p' gvu' u' ugo u " qt" r quklqplpi " f gxleg' u' ugo u0"

**1926.501(b)(6) Tco ru' twpy c { u' c' pf " qv' gt' y cmy c { u0** Gcej " go r nq { gg" qp" tco r u0 twpy c { u0 c' pf " qv' gt' y cmy c { u' u' cmi dg' r tqvexfg " hqo " hcmki " 8' hggv" \*30 " o + qt" o qtg' vq" ñy gt " rñxgn" d { " i wctf tckñf u' ugo u0"

**1926.501(b)(7) Gz ecxv' kp u0** \*k+ Gcej " go r nq { gg' cv' vj g' gf i g' qh' c' p' gzeecxv' kp" 8' hggv" \*30 " o rñqt" o qtg' kp' f gr vj " u' cmi dg' r tqvexfg " hqo " hcmki " d { " i wctf tckñf u' ugo u. " hpegu. " qt" dcttkecf gu" y j gp" vj g' gzeecxv' kp u' ctg" pqv' tgc f kñ " uvgp" dgecvwg' qh' r rñpv i tqy vj " qt" qv' gt " xkuvclñdcttktg" ="

**1926.501(b)(7)(ii)** " Gcej " go r nq { gg' cv' vj g' gf i g' qh' c' y gm' r' ku' vj chx' cpf " uko kct" gzeecxv' kp" 8' hggv" \*30 " o + qt" o qtg' kp' f gr vj " u' cmi dg' r tqvexfg " hqo " hcmki " d { " i wctf tckñf u' ugo u. " hpegu. " dcttkecf gu. " qt" eqxgtu0



**1926.501(b)(8)** *Fcpi gt qwu'gs wkr o gpv'0* \*k' Gcej "go r nq {gg'rgu'v'j cp"8" hggv' \*30 "o n'cdqxs' f cpi gtqwu'gs wkr o gpv'uj cni'dg'r tqgvegf "htqo "hcnkpi "lpq'q" q'p'v'j g'f cpi gtqwu'gs wkr o gpv'd' "i wctf tcklu' ugo u'qt'd' "gs wkr o gpv' u' wctf u'0

**1926.501(b)(8)(ii)** Gcej "go r nq {gg'8" hggv' \*30 "o +qt" o qtg'cdqxs' f cpi gtqwu'gs wkr o gpv'uj cni'dg'r tqgvegf "htqo "hcnkpi c' ctf u'd' "i wctf tcklu' ugo u' r'gtuqpcr' hcnicttgu'v' ugo u'qt'uchgv' 'pgv'u' ugo u'0

**1926.501(b)(9)** *Qxgtj cpf "dtlenc'kpi "cpf "tgrv'f" y qtm* \*k' Gzegr v' cu' q'j gty kug' r tqxkf'gf "lp" r ctcit' tcrj " \*d+ qh' y' k' u' ugevkp0' gcej " go r nq {gg' r gthto kpi "qxgtj cpf "dtlenc'kpi "cpf "tgrv'f" y qtm'8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "i wctf tcklu' ugo u'0 uchgv' 'pgv'u' ugo u'0 r'gtuqpcr' hcnicttgu'v' ugo u'qt' u'j cni' y qtm'k' c' eqpvtqmgf "ceeguu' qpg0'

**1926.501(b)(9)(ii)** Gcej "go r nq {gg' tgcj' kpi "o qtg' y' cp" 32" lpej gu' \*47" eo +d' gduy' "y' g' r'gxn'u' qh' y' g' y' cmi' kpi ly qtmkpi "u'w' hcg' qp' y' j lej "y' g' c' t' g' y' qtmkpi " u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "c" i wctf tcklu' ugo u'0 uchgv' 'pgv'u' ugo u'0 "qt" r'gtuqpcr' hcnicttgu'v' ugo u'0

**Note:** Dtlenc'kpi "qr gtevkpu' r' gthto g' qp' uechqf u' c' t' g' t' g' w' r' g' f' d' "u'wdr c' t' v' N' uechqf u' qh' y' k' u' r' c' t' v'0

**1926.501(b)(10)** *Tqqh'kpi "y qtm'on Nqy /uarg' tqqh'0* Gzegr v' cu' q'j gty kug' r tqxkf'gf "lp" r ctcit' tcrj " \*d+ qh' y' k' u' ugevkp0' gcej "go r nq {gg' gpi ci g'f "lp" tqqh'kpi "cevk'k'k'g' u'p' nqy' /uarg' tqqh'kpi "y' k' u' w' r' tqgvegf "u'k' gu' c' p' f' g' f' i' gu'8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "i wctf tcklu' u' ugo u' uchgv' 'pgv'u' ugo u' r'gtuqpcr' hcnicttgu'v' ugo u'qt' c' eqo d' l' p' c' v' q' qh' y' c' t' p' kpi "h'p'g' u' ugo "c' p' f' "i wctf tcklu' u' ugo "y' c' t' p' kpi "h'p'g' u' ugo "c' p' f' "uchgv' 'pgv' u' ugo "qt" y' c' t' p' kpi "h'p'g' u' ugo "c' p' f' r'gtuqpcr' hcnicttgu'v' u' ugo "qt" y' c' t' p' kpi "h'p'g' u' ugo "c' p' f' "uchgv' "o q'p'k'q' t' kpi "u' ugo 0' Q' t' "q'p' t' q' q' h' u' 72/ hggv' \*37047" o n'qt" r'g'u' u' k' p' y' k' f' y' "h'g'g' C' r' r' g' p' f' k' C' "q' u'wdr c' t' v'0 "q' h' y' k' u' r' c' t' v' "y' g' w' u' g' qh' c' uchgv' "o q'p'k'q' t' kpi "u' ugo "c' m'p'g' l' k' d' y' k' y' w' w' y' g' y' c' t' p' kpi "h'p'g' u' ugo +k' u' r' g' t' o' k' s' g' f'0'

**1926.501(b)(11)** *Uggr' "tqqh' Gcej "go r nq {gg' qp" c' u'ggr' tqqh' y' k' u' w' r' tqgvegf "u'k' gu' c' p' f' g' f' i' gu'8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "i wctf tcklu' u' ugo u' y' k' u' "v' q' d' q' c' t' f' u' u' uchgv' 'pgv' u' ugo u'0 q' t' r'gtuqpcr' hcnicttgu'v' u' ugo u'0*

**1926.501(b)(12)** *Rtgecu' eqpetg'gt' gtevkp0* Gcej "go r nq {gg' gpi ci g'f "lp" y' g' g' t' g' v' k' p' qh' r' t' g' c' u' v' eqpetg' "o go d' g' t' u' "l' p' e' n' w' i' k' p' o' d' w' p' q' v' r' o' k' s' g' f' "v' y' g' g' t' g' v' k' p' qh' y' c' m' i' r' c' p' g' n' u' e' q' n' o' p' u' "d' g' c' o' u' "c' p' f' "h' m' q' t' "c' p' f' "t' q' q' h' "S' g' g' u' s' "c' p' f' "t' g' r' v' e' g' f' "q' r' g' t' c' v' k' p' u' "u' e' j' "c' u' i' t' q' w' k' p' i' "q' h' r' t' g' c' u' v' eqpetg' "o go d' g' t' u' y' j' q' k' u' 8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "i wctf tcklu' u' ugo u'0 uchgv' 'pgv'u' ugo u' qt' r'gtuqpcr' hcnicttgu'v' u' ugo u'0 v' r' g' u' u' c' p' q' y' g' t' r' t' q' x' k' u' k' p' u' "lp" r' c' t' c' i' t' t' r' j' "d+ qh' y' k' u' ugevkp' r' t' q' x' k' f' g' u' h' q' t' "c' p' c' n' g' t' p' c' v' k' s' g' h' c' m' i' r' t' q' g' e' v' k' p' o' g' c' u' w' i' g'0' Gzegr v' k' p' c' Y' j' g' p' y' g' g' o' r' n' q' {g' t' e' c' p' f' g' o' q' p' u' t' c' v' e' g' y' c' v' k' u' l' p' h' g' c' u' k' d' i' n' g' "q' t' e' t' g' c' v' u' c' i' t' g' e' v' t' j' c' l' c' t' f' "v' q' w' u' g' y' g' u' g' u' u' g' o' u' y' g' g' o' r' n' q' {g' t' u' j' c' m' i' f' g' x' g' n' u' r' "c' p' f' "l' o' r' n' g' o' g' p' v' c' "h' c' m' i' r' t' q' g' e' v' k' p' r' n' c' p' y' j' l' e' j' "o' g' g' u' v' y' g' g' t' s' w' k' t' g' o' g' p' u' q' h' i' r' c' t' c' i' t' t' r' j' "m' i' q' h' E3; 4807240'

**Note:** Vj g' t' g' k' u' c' r' t' g' u' w' o' r' k' l' p' q' y' c' v' k' u' l' h' g' c' u' k' d' i' n' g' c' p' f' "y' k' u' l' p' q' v' e' t' g' c' v' e' g' c' i' t' g' c' v' e' t' j' c' l' c' t' f' "v' q' k' o' r' n' g' o' g' p' v' c' v' i' g' c' u' v' q' p' g' q' h' y' g' d' c' d' q' x' g' / r' u' g' f' "h' c' m' i' r' t' q' g' e' v' k' p' u' u' u' g' o' u'0' C' e' e' q' t' f' k' p' i' n' "y' j' g' g' o' r' n' q' {g' t' j' c' u' v' y' g' g' d' w' t' f' g' p' q' h' g' u' c' d' i' k' u' j' k' p' i' "y' c' v' k' u' l' c' r' r' t' q' r' t' k' e' v' "v' q' k' o' r' n' g' o' g' p' v' c' "h' c' m' i' r' t' q' g' e' v' k' p' r' n' c' p' y' j' l' e' j' "e' q' o' r' n' g' u' v' y' k' s' j' E3; 480724"m' h' q' t' "c' r' c' t' v' e' w' i' t' "y' q' t' n' r' e' e' g' "u' k' s' c' v' k' p' u' "l' p' r' i' g' v' q' h' k' o' r' n' g' o' g' p' v' k' p' i' "c' p' f' "q' h' y' q' u' g' u' u' g' o' u'0'

**1926.501(b)(13)** *Tguf' g'p'v'k' n' eqp'at w'ev'k'p'0* Gcej "go r nq {gg' gpi ci g'f "lp" t' g' u' l' f' g' p' v' k' n' e' q' p' u' t' w' e' v' k' p' "c' e' v' k' s' k' g' u' 8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "d{ "i wctf tcklu' u' ugo u' uchgv' 'pgv'u' ugo u' qt' r'gtuqpcr' hcnicttgu'v' u' ugo u'0 v' r' g' u' u' c' p' q' y' g' t' r' t' q' x' k' u' k' p' u' "lp" r' c' t' c' i' t' t' r' j' " \*d+ qh' y' k' u' ugevkp' r' t' q' x' k' f' g' u' h' q' t' "c' p' c' n' g' t' p' c' v' k' s' g' h' c' m' i' r' t' q' g' e' v' k' p' o' g' c' u' w' i' g'0' Gzegr v' k' p' c' Y' j' g' p' y' g' g' o' r' n' q' {g' t' e' c' p' f' g' o' q' p' u' t' c' v' e' g' y' c' v' k' u' l' p' h' g' c' u' k' d' i' n' g' "q' t' e' t' g' c' v' u' c' i' t' g' e' v' t' j' c' l' c' t' f' "v' q' w' u' g' y' g' u' g' u' u' g' o' u' y' g' g' o' r' n' q' {g' t' u' j' c' m' i' f' g' x' g' n' u' r' "c' p' f' "l' o' r' n' g' o' g' p' v' c' "h' c' m' i' r' t' q' g' e' v' k' p' r' n' c' p' y' j' l' e' j' "o' g' g' u' v' y' g' t' s' w' k' t' g' o' g' p' u' q' h' i' r' c' t' c' i' t' t' r' j' "m' i' q' h' E3; 4807240'

**Note:** Vj g' t' g' k' u' c' r' t' g' u' w' o' r' k' l' p' q' y' c' v' k' u' l' h' g' c' u' k' d' i' n' g' c' p' f' "y' k' u' l' p' q' v' e' t' g' c' v' e' g' c' i' t' g' c' v' e' t' j' c' l' c' t' f' "v' q' k' o' r' n' g' o' g' p' v' c' v' i' g' c' u' v' q' p' g' q' h' y' g' d' c' d' q' x' g' / r' u' g' f' "h' c' m' i' r' t' q' g' e' v' k' p' u' u' u' g' o' u'0' C' e' e' q' t' f' k' p' i' n' "y' j' g' g' o' r' n' q' {g' t' j' c' u' v' y' g' g' d' w' t' f' g' p' q' h' g' u' c' d' i' k' u' j' k' p' i' "y' c' v' k' u' l' c' r' r' t' q' r' t' k' e' v' "v' q' k' o' r' n' g' o' g' p' v' c' "h' c' m' i' r' t' q' g' e' v' k' p' r' n' c' p' y' j' l' e' j' "e' q' o' r' n' g' u' v' y' k' s' j' E3; 480724"m' h' q' t' "c' r' c' t' v' e' w' i' t' "y' q' t' n' r' e' e' g' "u' k' s' c' v' k' p' u' "l' p' r' i' g' v' q' h' k' o' r' n' g' o' g' p' v' k' p' i' "c' p' f' "q' h' y' q' u' g' u' u' g' o' u'0'

**1926.501(b)(14)** *Wall openings*0' Gcej "go r nq {gg' y' qtmkpi "qp. "cv'cdqxs' "qt" p' g' e' t' y' c' m' i' r' q' g' p' k' p' i' u' "l' p' e' n' w' i' k' p' i' "y' q' u' g' y' k' j' "e' j' w' g' u' c' w' e' j' g' f' +y' j' g' t' g' y' g' g' q' w' u' l' f' g' d' q' w' o' "g' f' i' g' q' h' y' g' y' c' m' i' r' q' g' p' k' p' i' "k' u' 8" hggv' \*30 "o n'qt" o qtg'cdqxs' nqy'gt' r'gxn'u' c' p' f' "y' g' l' p' u' k' f' g' d' q' w' o' "g' f' i' g' q' h' y' g' y' c' m' i' r' q' g' p' k' p' i' "k' u' h' g' u' u' y' c' p' 5; "l' p' e' j' g' u' \*30" o +cdqxs' y' g' y' c' m' i' p' i' l' y' q' t' n' k' p' i' "u' w' h' c' e' g' u' j' c' m' i' d' g' r' t' q' g' e' v' f' "h' t' q' o' "h' c' n' k' p' i' "d' { "y' g' l' u' g' q' h' c' i' w' c' t' f' t' c' k' l' u' u' g' o' 0' c' u' c' h' g' v' 'p' g' v' u' u' g' o' "q' t' c' r' g' t' u' q' p' c' r' h' c' n' i' c' t' t' g' u' v' u' u' g' o' 0'

**1926.501(b)(15)** *Y cmi'p' ly qtmkpi* u'w' h' c' e' g' u' p' q' v' q' j' g' t' y' k' u' g' c' f' f' t' g' u' e' f' Gzegr v' c' u' r' t' q' x' k' f' g' f' "lp" E3; 480722" c' #4+ q' t' "lp" E3; 480723" d' #3+ y' t' q' w' i' j' "d' #36+ " g' c' e' j' "g' o' r' n' q' {g' g' "q' p' c' y' c' m' i' p' i' l' y' q' t' n' k' p' i' "u' w' h' c' e' g' u' 8" hggv' \*30 "o +qt" o qtg'cdqxs' nqy'gt' r'gxn'u' u'j cni'dg'r tqgvegf "htqo "hcnkpi "d{ "c" i wctf tcklu' ugo u' uchgv' 'pgv' u' ugo u'0 q' t' r'gtuqpcr' hcnicttgu'v' ugo u'0

**1926.501(c)** *Rt qgve'k'p' htqo 'hcnkpi 'qdlgeu'0* Y j' g' p' c' p' go r nq {gg' k' u' g' z' r' q' u' e' f' "v' q' h' c' m' i' p' i' "q' d' l' g' e' u' d' y' g' g' o' r' n' q' {g' t' u' j' c' m' i' f' c' x' g' g' e' j' "g' o' r' n' q' {g' g' y' g' c' t' c' j' c' t' f' j' c' v' c' p' f' " u' j' c' m' i' o' r' n' g' o' g' p' v' q' p' g' q' h' y' g' h' q' m' y' k' p' i' "o' g' c' u' w' i' g' u'0

**1926.501(c)(1)** Gtgev' v' q' d' g' d' q' c' t' f' u'0 u' e' t' g' g' p' u'0 q' t' "i wctf tcklu' u' ugo u' v' q' r' t' g' x' g' p' v' q' d' l' g' e' u' v' h' t' q' o' "h' c' n' k' p' i' "h' t' q' o' "j' k' i' j' g' t' r' g' x' g' n' u' < q' t'0'

**1926.501(c)(2)** Gtgev' c' e' c' p' q' r' ( "u' w' e' w' i' t' g' c' p' f' "n' g' g' r' "r' q' v' e' p' l' e' n' i' h' c' m' i' q' d' l' g' e' u' v' h' c' t' " g' p' q' w' i' j' "h' t' q' o' "y' g' g' f' i' g' q' h' y' g' j' k' i' j' g' t' r' g' x' g' n' u' y' c' v' y' q' u' e' q' d' l' g' e' u' v' y' q' w' f' "p' q' v' i' q' "q' x' g' t' y' g' g' f' i' g' k' h' y' g' l' y' g' t' g' c' e' e' k' f' g' p' v' c' m' i' f' k' u' r' r' e' e' g' f' < q' t'0'

**1926.501(c)(3)** D' c' t' t' l' e' c' f' g' "y' g' c' t' g' c' "v' q' y' j' l' e' j' "q' d' l' g' e' u' v' e' q' w' f' "h' c' m' i' r' t' q' j' k' k' v' g' o' r' n' q' {g' g' u' "h' t' q' o' "g' p' v' k' p' i' "y' g' d' d' t' t' l' e' c' f' g' f' "c' t' g' c' "c' p' f' "n' g' g' r' "q' d' l' g' e' u' v' y' c' v' o' c' i' "h' c' m' i' h' c' t' "g' p' q' w' i' j' "c' y' c' i' f' "h' t' q' o' "y' g' g' f' i' g' q' h' c' j' k' i' j' g' t' r' g' x' g' n' u' y' c' v' y' q' u' e' q' d' l' g' e' u' v' y' q' w' f' " p' q' v' i' q' x' q' x' g' t' y' g' g' f' i' g' k' h' y' g' l' y' g' t' g' c' e' e' k' f' g' p' v' c' m' i' f' "f' k' u' r' e' e' g' f'0'

## 1926.502 Fall protection systems criteria and practices.

**1926.502(a)** *I gpgt'c'0* \*3+ "h' c' m' i' r' t' q' g' e' v' k' p' u' u' u' g' o' u' t' g' s' w' k' t' g' f' "d' { "y' k' u' r' c' t' v' u' j' c' m' i' e' q' o' r' n' q' "y' k' j' "y' g' c' r' r' d' e' c' d' n' g' r' t' q' x' k' u' k' p' u' q' h' y' k' u' l' g' e' v' k' p' u'0'

**1926.502(a)(2)** G' o' r' n' q' {g' t' u' j' c' m' i' r' t' q' x' k' f' g' c' p' f' "l' p' u' c' m' i' c' m' i' h' c' m' i' r' t' q' g' e' v' k' p' u' u' u' g' o' u' t' g' s' w' k' t' g' f' "d' { "y' k' u' u' w' d' r' c' t' v' h' q' t' "c' p' "g' o' r' n' q' {g' g'0' c' p' f' "u' j' c' m' i' e' q' o' r' n' q' "y' k' j' "c' m' i' q' y' g' t' "r' g' t' v' k' p' p' v' t' g' s' w' k' t' g' o' g' p' u' q' h' y' k' u' u' w' d' r' c' t' v' d' h' q' t' g' y' c' v' g' o' r' n' q' {g' g' d' g' i' k' p' u' y' g' y' q' t' n' i' y' c' v' p' g' e' g' u' k' c' v' g' u' y' g' h' c' m' i' r' t' q' g' e' v' k' p' u'0'

**1926.502(b)** *I wctf tcklu' ugo u0* I wctf tcklu' u' ugo u' c' p' f' y' g' k' u' g' u' j' c' m' i' e' q' o' r' n' q' "y' k' j' "y' g' h' q' m' y' k' p' i' "r' t' q' x' k' u' k' p' u'0'

**1926.502(b)(1)** "V' q' r' g' f' i' g' j' g' l' i' j' v' q' h' y' q' r' "t' c' k' n' u' "q' t' g' s' w' k' s' c' r' e' p' v' i' w' c' t' f' t' c' k' l' u' u' u' g' o' "o' g' o' d' g' t' u' "u' j' c' m' i' d' g' 64" l' p' e' j' g' u' \*30" o' +r' n' u' q' t' o' k' p' u' 5" l' p' e' j' g' u' \* "e' o' +c' d' q' x' g' y' g' "y' c' m' i' p' i' l' y' q' t' n' k' p' i' "r' g' x' g' n' u' Y' j' g' p' e' q' p' f' k' l' q' p' u' y' c' t' t' c' p' v' y' g' j' g' l' i' j' v' q' h' y' g' v' q' r' "g' f' i' g' "o' c' l' "z' e' z' e' g' f' "y' g' 67/ l' p' e' j' "j' g' l' i' j' v' r' t' q' x' k' f' g' f' y' g' i' w' c' t' f' t' c' k' l' u' u' u' g' o' "o' g' g' u' v' c' m' i' q' y' g' t' "e' t' k' s' t' c' k' y' q' h' y' k' u' r' c' t' c' i' t' t' r' j'0'

**Note:** Y j' g' p' g' o' r' n' q' {g' g' u' c' t' g' w' u' l' p' i' "u' k' n' u' "y' g' v' q' r' "g' f' i' g' j' g' l' i' j' v' q' h' y' g' v' q' r' "t' c' k' n' u' "q' t' g' s' w' k' s' c' r' e' p' v' o' g' o' d' g' t'0' u' j' c' m' i' d' g' l' p' e' t' g' c' u' g' f' "c' p' "c' o' q' w' p' v' g' s' w' e' n' i' q' y' g' j' g' l' i' j' v' q' h' y' g' v' q' r' "t' c' k' n' u'0'

**1926.502(b)(2)** "O' k' f' t' c' k' n' u' "u' e' t' g' g' p' u' "o' g' u' j' "l' p' v' g' t' o' g' f' k' c' v' g' x' g' t' v' e' c' n' i' o' g' o' d' g' t' u' "q' t' "g' s' w' k' s' c' r' e' p' v' l' p' v' g' t' o' g' f' k' c' v' g' u' t' w' e' w' i' c' n' i' o' g' o' d' g' t' u' u' j' c' m' i' d' g' l' p' u' c' m' i' g' f' "d' g' y' g' g' p' y' g' v' q' r' "g' f' i' g' q' h' y' g' i' w' c' t' f' t' c' k' l' u' u' u' g' o' "c' p' f' "y' g' y' c' m' i' p' i' l' y' q' t' n' k' p' i' "u' w' h' c' e' g' u' y' j' g' p' y' g' t' g' k' u' p' q' y' c' m' i' q' t' r' c' t' e' r' g' v' y' c' m' i' c' v' i' g' c' u' v' 43" l' p' e' j' g' u' \*75" e' o' +j' k' i' j'0'

**1926.502(b)(2)(i)** "O' k' f' t' c' k' n' u' "y' j' g' p' w' u' g' f' "u' j' c' m' i' d' g' l' p' u' c' m' i' g' f' "c' v' c' j' g' l' i' j' v' o' k' f' y' c' f' "d' g' y' g' g' p' y' g' v' q' r' "g' f' i' g' q' h' y' g' i' w' c' t' f' t' c' k' l' u' u' u' g' o' "c' p' f' "y' g' y' c' m' i' p' i' l' y' q' t' n' k' p' i' "r' g' x' g' n' u'0'

**1926.502(b)(2)(ii)** U' e' t' g' g' p' u' c' p' f' "o' g' u' j' "y' j' g' p' w' u' g' f' "u' j' c' m' i' g' z' e' p' f' "h' t' q' o' "y' g' v' q' r' "t' c' k' l' u' v' y' g' y' c' m' i' p' i' l' y' q' t' n' k' p' i' "r' g' x' g' n' u' c' p' f' "c' m' i' p' i' "y' g' g' p' v' k' g' q' r' g' p' k' p' i' "d' g' y' g' g' p' y' q' r' "t' c' k' l' u' w' r' r' q' t' u'0'

**1926.502(b)(2)(iii)** l' p' v' g' t' o' g' f' k' c' v' g' "o' g' o' d' g' t' u' "u' e' j' "c' u' d' e' n' u' g' t' u' + "y' j' g' p' w' u' g' f' "d' g' y' g' g' p' y' q' u' u' u' j' c' m' i' d' g' l' p' q' v' o' q' t' g' y' c' p' 3; "l' p' e' j' g' u' \*6: "e' o' +r' c' t' v'0'

**1926.502(b)(2)(iv)** Q' y' g' t' u' w' e' w' i' c' n' i' o' g' o' d' g' t' u' "u' e' j' "c' u' c' f' f' k' l' q' p' c' n' i' o' k' f' t' c' k' n' u' c' p' f' "c' t' e' j' k' g' e' w' i' c' n' i' r' c' p' g' n' u' u' j' c' m' i' d' g' l' p' u' c' m' i' g' f' "u' e' j' "y' c' v' y' g' t' g' c' t' g' p' q' q' r' g' p' k' p' i' u' l' p' y' g' i' w' c' t' f' t' c' k' l' u' u' u' g' o' "y' c' v' c' t' g' o' q' t' g' y' c' p' 3; "l' p' e' j' g' u' \*0' "o' +y' k' f' g'0'

**1926.502(b)(3)** "I wctf tcklu' u' ugo u' u'j c' m' i' d' g' e' c' r' c' d' n' g' q' h' y' k' j' u' e' c' p' f' k' p' i' "y' k' j' q' w' h' c' m' i' g' c' "h' q' t' e' g' q' h' c' v' i' g' c' u' v' 422" r' q' w' p' u' t' \*; 2" P +r' c' r' r' i' g' f' y' k' j' k' p' 4" l' p' e' j' g' u' \*70" e' o' +q' h' y' g' v' q' r' "g' f' i' g' "k' p' c' p' f' "q' w' y' c' t' f' "q' t' f' q' y' p' y' c' t' f' "f' k' g' e' v' k' p' u' "c' v' c' p' f' "r' q' k' p' v' c' m' i' p' i' "y' g' v' q' r' "g' f' i' g'0'



## Fall Protection

1926.502(b) (4) Y y gp'v̄j g'422't qwpf<sup>1926</sup>; 2'P -ʔxuv̄mqc'f'ur gekk'f'lp'rtci terj |  
 ʔd-ʔ5-ʔq'h'ij kufveqvp'k'urr nrgf | lp'f'qy p'f'f'kgekvap'v̄j q'g'f'f'g'q'h'ij g' |  
 i wctfck'ij cml'egv'f'ghrgv'v̄j g'k'j y'v̄g'u'v̄j cyt'5; 'lpej gp'332'0 -'cdxq'g'g' |  
 y cmkpi i y qtnpi | n̄xgrv̄f' i wctfck'ij ul'ungo | eqo r'apqpw' u'ugrev'f' c'p'f' |  
 eqpurtwv'f' lp'ce/eqt'f'cpeg'v̄j k'g'g'v̄j g'C'r r'gp'f'k'z: 'q'f'wdr ctv'O | q'h'ij k'ur'ctv'ij k'nf'  
 d'rd'ggo g'f'q'v'o g'gv̄v̄j k'ut'g'v̄j w'k'go gpv'o

1926.502(b)(5) O k tckn. 'u'etggpu. 'o guj . k'p'vto gf k'v'x'g'v'ecr'i'no go dgtu 'u'q'k' r'cp'gn. 'cp'f 'gs w'k'ic'p'p'v'v'w'w'ecr'i'no go dgtu 'u'j'cm'd'g'ecr'cd'g'q'h'y k'j'nc'p'f'k'p' . y k'j'q'w' h'c'k'w'g. 'c' h'q'teg' q'h' c'v'ng'cu' 372' r'q'w'p'f'u' '888' P+'c'r'r'f'eg' k'p'cp'f' f'q'py'ct'f' q't' q'w'y'ct'f' f'k'g'v'k'p' c'v'cp'f' r'q'l'p'v'c'm'p'i 'y'g'o o k'f'c'k'i' q't' q'y'g't' o go dgt'0

**1926.502(b)(6)** 'I wctf tckltu|ungo u'lj cml'dg'uq'uwthcegf'cu'q' r t'g'x'g'p'v'lp'w { 'q' cp' go r nq |gg' h'qo " r w'p'w'et'gu' qt' n'eg't'c'v'q'pu' c'p'f 'q' r t'g'x'g'p'v' u'p'c'i i l'p'i " q'h' en'q'j l'p'i O'

**1926.502(b)(7)** "Vj g"gp f u"qh'cm'qqr "tcku cpf "o kf tcku'uj cm'pqv"qxgtj cpi "vj g"  
vgo lpcn'r quvu "gzegr v'y j gtg"uwej "qxgtj cpi "f qgu"pqv"eqpukwgg" c"r tqlgcvqp"  
j cl ctf 0

**1926.502(b)(8)** Uggñ'dcpf kpi "cpf"r mñwle"dcpf kpi "uj cm'pqv'dg"wgf"cu"vqr "tcku"qt'o k'f tcku0'

**1926.502(b)(9)** Vqr tcku'cpf 'o k'f tcku'uj cm'dg'cv'ngcu'qpg/s wctvgt 'lpej '\*20' eo -'p'qo kpcr'f'kco ggt'qt''j jennpu'q'r t'xgpp'ewu'cpf 'n'egtcvqpu'f'h'y k'g' t'g'k'u'wug'f'ht'q'r'k'k'k'k'k'k'f'rci i g'f'cv'pqv'o qtg'j'yp'8/hqj'y\*30 'o -' l'pvt'x'u'y k'j 'j'k'j /x'ukidk'f' 'o cvgt'krf'

**1926.502(b)(10)** Y j gp'i wctf tckl'u' u'go u'ctg'wuf' cv'j qknp'i 'ctgcu.'c'ej klp'o' i cvg'qt' 'go qxcdng' i wctf tckl'uge'wq'uj cm'dg r'negf' 'cetqu'i'y' g'ceegui'qr gpkp'i " dgy ggp' i wctf tckl'uge'wqpu'y j gp'j qknp'i 'qr gt'wqpu'ctg'pqv'cnkp'i 'r'nego'

1926.502(b)(11)"Y j gp"i wctf tckn'u{ uvgu u"ctg" wugf "cv"j qrgu."y j{ "uj cm'dg"  
gtgevgf "qp"cm'wpr tqgevgf "ukf gu"qt"gf i gu'qh'y j"j qrg0

1926.502(b)(12) 'Y 'j gp' i wctf tckl'u' u'go u'ctg'wuef 'ctqwpf' 'j qgu'wuef 'hqt' 'j' g' r cuai' g'qh' o cvgtkcm'v'j g' j qng' 'uj cmf'j cxg'pqv'o qtg' 'j' p' 'y' q' 'uk' gu'r tqxkf' gf' ' y kj' 'tgo qxdng' i wctf tckl'ugev'cu'q' cm'q' 'j' g' r cuai' g'qh' o cvgtkcm'v'Y 'j gp' 'v'j g' j' qng' 'ku'pqv'k'w' u'go' 'k'v'j qm'd'g' enueq' 'xgt' 'y' k' 'c'eqxg'. 'qt' 'c' i wctf tckl' 'j' u'go' 'k' cmld'g' tqxkf' gf' 'cu'p' i cm'w'p' tqve'gf' 'uk' gu'qt' gf' i gu'

1926.502(b)(13) "Y j gp"i wcf tckl'u' ugo u'ctg'wuf' ctqwpf "j qru'y j kej "ctg'wuf' cu'r qkp'u'q'ceegu\*"uwej' cu'ncf gty c|u:-'y j g' "uj cm'dg'r tqxf gf "y kj "c" i cvg. 'qt' dg'uq' qhugv'c' rgtuq' ecppqv'y cmif kgeu' 'lpv'j g'j qru'

**1926.502(b)(14)** I wctf tckn' u{ uvgo u" wugf " qp" tco r u" cpf " twpy c{ u" uj cm' dg  
gtgevgf "cmpi "gcej "wpr tqvgvgf "ukf g"qt "gf i gO'

**1926.502(b)(15)** "O cpkrc'Or rcukc"qt'u[pj gvle"tqr g'dgkpi "wugf"tqt"vqr "tcknu"qt' o kf tcknu"uj cmi' dg' kpur gegef "cu"htgs wgpwv' "cu"pgeguuct ("q" gpuwtg' yj cv' k' eqp'lpwgu' vq' o ggv' yj g' utgpi yj "tgs vktgo gpu' qh' r ctcj tcr j "d\*+5" qh' yj ku' utgci pgu' "

1926.502(c) *Uchgv' "pgv' u{ wgo u" cpf " y gk" wug" uj cm'*  
eqo r n{ 'y kj "y g' hmqy kpi 'r tqxkukpu<

1926.502(c)(1) Safety nets shall be installed as close as practicable under the walking/working surface on which employees are working. 'dwn'p'p'q' ecug' o qtg' 'j cp' 52' hgg' v'; Ø' o + 'dgruy' 'uwej' 'rɛxgrf' Y j gp' pgu' ctg' wɛf' qp' dɪk' i gu' 'j r' q' vɛpɪk' hcn' ctg' h' qo' 'j g' y' cmɪp' lɪ qtnkɪ' 'uwtɛcg' 'q' 'j g' p'gv' i'j' cmɪd' ʷpɔdɪw' wɛf' o'

1926.502(c)(2)" Uchgv" pgw" uj cm" gzvgpf" qwy ctf" htqo " y g" qwgt/o quv"  
rtqlgexqp"qh'y g'y qtnlwtthceg"cu'hqny u:"

**1926.502(c)(3)** Uchgv\ 'pgw'uj cni'dg\hpucmgf\ 'y kj\ 'uwlhlegpv\ergetcpeg\wpf gt\ 'y go\ 'q'rt'rgxgpnveqpcv'y kj\ 'y g\ 'uwl'fceg'qt\ 'u'wewtgu'dgny\ 'y j gp\ 'uwl'dgevf\ 'q' cp\ 'ko r cev\ 'h'qteg\ 'gs wcn\ 'q' 'y g\ 'f'fqr\ 'vgu'ur gclhgf\ 'kp\ 'r ctcj tcr j\ 'e+6+\ 'qh\ 'y ku\ 'u'wepq'p'

1926.502(c)(4) Učhɣ' pɣu'cpf'j' gk' l'pucmɛvɛpɔu'uj' cm'dɛr'cɛr'cɛr'q'h'cduq'ldkɔ' "cp'kɔ' r'cev'hɛtɛg'sv'cn'q'j' cv'r'tqf'wɛg'f'd'{'j' g'f'q'r'g'u'ur'g'k'ɛf'k'p'r'ctci' tɛr'j' \*e+\*6+\*k'q'h'j' k'u'gɛv'qɔ'

1926.502(c)(4)(i) "Czegę v'cu'r tɔxh'g f'lp'r tci tci j "e-ʔe-ʔk' qh'v' k'l'ugevɔp' uchev' 'pgu'c'p' uchev' 'pgv'pucm'vɔp'u'v' cm'dg' f'tqr /guv'g' cv'v'g' g'ldqud'ch'g' k'p'k'ic'p'pucm'vɔp'cp'f' d'gh'tg'd'g'lp' "u'g'f' k'v'c'hm'i'r t'g'v'g'v'p' u'ngo. 'y' j' g'p'g'x' t'g'uev'g'. 'ch'g'o' c'clq't' r'ck'cl. 'cp'v'c'v'8'o' q'p'y' k'p'p'k'ic'p'k'ic'p'p'p'g'r'nc'g'o'v'j' g' f'tqr /gu'v'j' cm'eq'puk'v'q'h'c'622'r'q'w'p'f'3: 2'i'ni +d'ci' q'h'uc'p'52\_- '4'k'p'ej'gu'98\_- '7'eo +d'lp'f'ko'g'j'g'et'f'tqr r'g'f' 'lp'q'v'j' g'p'g'v'ht'qo' "v'j' g'j' k'j' gu'v' y' cm'k'p' ly' q'tm'p' "u'ch'eg'cv'v'j' k'j' g' r' n'q' /g'gu'c't'g'z'r'qu'g'f' "q'hm'j' c' t'cf' u' /dw'p'q'v'ht'qo' 'gu'v'j' cp' 64'k'p'ej'gu'30'8'o' +d'cx'q'g'v'j' cv'h'eg'x'p'.

1926.502(c)(4)(ii) "Y j gpj 'g' g'go r m[ɣ] t'g'ecp'f go qpuvcvɣ 'j' cʷkʷ/ku'wptgecuppednɣ' vq' r'gtɬto " 'j' g' f tqr /gʷu/ tɬgʷkɬg' d' /r'ctci tci/ " \*e#e#-q'h' 'j' kʷ'ugevqɔ'0 'j' g' go r m[ɣ] t'g'qʷt' c' f'kʷi pcvɛg' eqo' r gɛpɣj' r'gtuap' vj' cniɛgtʷhʷ /'j' cʷv'j' g' pɣv'cpf' 'pɣv' kpuvcvɛvqɔ' y g' g' eqo' r nɛpɛg' 'y kɬj' 'j' g' r tɬxukupɣ' q'h' r'ctci tci " \*e#5+-cpf' \*e#6-#e#q'h' 'j' kʷ'ugevqɔ' d' /r'gtɬ ctki/ 'c'egtʷhʷcɛvqɔ' tgeqtɬ' r'ktq' v'q' 'j' g' pɣv'dgkpi " wuɣf' cu' c' hmi' r t'q'gevcvqɔ' /uŋgo 0' Vj' g' g'p'w' t'w'cɛvqɔ' tgeqtɬ " o wu' kpeɛɛ' g' cp' k' gp'w' t'w'cɛvqɔ' r'j' g' pɣv'cpf' 'pɣv' kpuvcvɛvqɔ' hʷt' 'j' j' kɬj' 'j' g' g'p'w' t'w'cɛvqɔ' tgeqtɬ' /ku' dgkpi /r'gtɬ cɬg' <ɰ' j' g' f' cʷv'j' cu' f' g'vto go kɬɣ' 'j' cʷv'j' g' p'w' t'w'cɛvqɔ' 'pɣv'cpf' 'pɣv' kpuvcvɛvqɔ' y g' g' k'p' eqo' r nɛpɛg' y kɬj' r'ctci tci/ " \*e#5+-q'h' 'j' kʷ'ugevqɔ' cpf' 'j' g' uki pcvɛg' q'h' 'j' g' r'gtuap' o cniɛpi " 'j' g' f' g'vto go kɬcɛvqɔ' cpf' t'egtʷhʷcɛvqɔ' 0' Vj' g' o quv' t'gegp'v'egtʷhʷcɛvqɔ' tgeqtɬ' /hʷt' g'ceɣ' p'pɣv' kpuvcvɛvqɔ' vj' cniɛgtʷc'xɛk'ndɛn' cʷv' j' g' t'adukɬg' hʷt' k'pɔr g'evkɔ'0

1926.502(c)(5) F ghe'xk'g'pgu'uj cml'pq'vd'g'wug' 0'Uchev' 'pgu'uj cmi'd'g'lpur gev'f " cv'nguv'pqeg" c' y ggn'lh' y gct. " fco ci c' "cpf " q'y gt' f'g'et'q'ic'v'kp0' F ghe'xk'g' chg' r'qp'p'g'u'uj cmi'd'g'0'go xq'f "It'go "h'g'x'k'g'0'Uchev' 'pgu'uj'cml'c'v'lpur gev'f " eqv' 'cp' "q'ee'wt'p'eg'v'y j lej "eq'w'f "ch'g'ev'y j'g'lp'g' tsk' "q'h'y g'uch'ev' 'pgv'u'j ugo 0'

1926.502(c)(6) 'O cvgtkcu 'ueter 'r kgegu 'gs wkr o gpv 'cpf 'vqqu'y j kej 'j cxsghmp' kpx 'j g'uchgv' pfg'vuj cm'dg'tgo qxgf 'cu'vqqp'cu'r quakdg'htgo 'j g'pgv'cpf 'cv' rgcuv'dghqtg'j g'pgzv'y qtnilj kht'

**1926.502(c)(7)** Vj g' o czko wo "ukl g' qh' gcej "uchv' pgv' o guj "qr gpkl' "uj cm' pqv' gzegej "58' us wctg' lpej gu' "452' eo <sup>4</sup> "pqt' dg' tpi gt' vj cp' 8' lpej gu' "37' eo +qp' cp' {" uk' g' ocpf' "j g' "qr gpkl' 0' o gcuwtg' "epgvt/ qv/ epgvt' qh' o guj "tqr gu' qt' y gddkl' 0' u' tpxgd' dg' tpi gt' vj cp' 8' lpej gu' "37' eo +0' Cm' o guj "etqumpl u' vj cm' dg' ugewt' " vq' t' exgpn' pgncti go gpn' qh' vj g' u' "qr gpkl' 0'

1926.502(c)(8) "Gcej "uchgv "pgv"qt "ugevqp"qh"kv"uj cm"j cxg"cdqtf gt"tqr g"ht"  
y gddkpi "y kj "c"o kpk wo "dtgcnkpi "wt gpi y "qh70222"r qwpf u"440"nP +0'

**1926.502(c)(9)** Eqppgwgqpu'dgwy ggp'uchgv'pgv'r cpgn'uj cmi'dg'cu'wtqpi 'cu' kpgi tcn'pgv'eqo r qpqpw'cpf 'uj cmi'dg'ur cegf'pqv'o qtg'y cp'8'kpej gu'\*37'eo +' cr ctv()

1926.502(d) *Rgtuqpcrhcničttgũw'ũngo w'Rgtuqpcrhcničttgũw'ũngo* u cpf 'j' gk' wug'uj cni'eqo r n' 'j' ky 'j' g' r t q x k u l p t ' u g w' h q t j ' d g n y O' G h g w x g ' l e p w c t ' 3 . 3 ; : . ' d q f ' ( ' d g n u ' c t g ' p q v ' c e e g r x d n g ' c u ' r c t v ' q h ' c ' r g t u q p c r h c n i č t t g ũ w ' ũ n g o O ' P q v g ' w j ' g ' w u g ' q h ' c ' d g ' ( ' d g n ' l p ' c ' r k u s k l p e i ' T g x l g ' u n g o ' l u ' c e e g r x d n g ' c p f ' l u ' t j ' w x w f ' w p f g ' r c t c i t e r t j ' ' s g ' q h ' j ' k u p k e p l o ' )

**1926.502(d)(1)** Eqppgevqtu"uj cm'dg"ftqr "hqi gf."rtguugf"qt"hqto gf"uyegn"qt"  
o cf g"qh"gs wkcrrpv'o cvgtkcnf' ""

1926.502(d)(2) "Eqppgevgtu"uj cmi"j cxg" c"eqttqulqk/tgukncpv" hpluj ." cpi" cmi  
uwthcegu"cpf"gf i gu"uj cmi"dg"uo qqy "q"r tngxpvp"i co ci g"q"kvgtthceki ."rtw"qh"  
vj g"u"ungo 0'

1926.502(d)(3)" F gg/tkpi u" cpf" upcrj qqmu" uj cm" j cxg" c" o kpk wo " vgpukg"  
ut gpi vj "qh"7.222"r qwpf u"\*4404"nP -0'

**1926.502(d)(4)** "F gg/ tpi u'cpf "upcr j qqm'u j cm'dg" r tqqh/ gungf "q" c'o kpo wo " gpkug/ mcf "qh' 5.822" r qpwp f " \*38" nP + 'y kj qw' etcenpi . " dtgc npi . " qt " cnpi " r gto cpepv' ghqto cskqp0'

"	Vertical distance	Minimum required
"	From working level	horizontal distance
"	to horizontal plane	of outer edge
"	of net	of net from the edge
"		of the working surface.

[illegible]



## OSHA Standards for the Construction Industry

**1926.502(d)(5)** Uprcr j qqnu'uj cni'dg'uk' gf "vq"dg'eqo r c'v'dng'y kj "v'j g'o go dgt" vq"y j lej "v'j g'ctg'eapppgevgf"vq"rt'g'x'g'p'v'w'p'k'v'g'p'v'k'p'c'n'f' l'k'g'p'i ci go g'p'v'q'h'y'j g' upcr j q'q'n'd' f'g'r't'g'u'k'q'p'q'h'y'j g'upcr j q'q'n'i'ng'g'r't'd' f'v'j g'eapppgevgf"o go dgt."qt" u'j cni'dg'c'q'up'k'p'i "v'f'r g'upcr j q'q'n'i'f' g'uk' p'g'f' c'p'f' "v'w'g'f'v'q"r't'g'x'g'p'v'f' l'k'g'p'i ci go g'p'v' q'h'y'j g'upcr j q'q'n'i'd' f'v'j g'eap'p'c'v'q'h'y'j g'upcr j q'q'n'i'ng'g'r't'd' f'v'j g'eapppgevgf" o go dgt'0' G'f'g'e'v'k'g"l'c'p'w'c't' f'3.3; : . : "q'p'n' "n'p'k'p'i "v'f'r g'upcr j q'q'n'i' u'j cni'dg' w'g'f'0' "

**1926.502(d)(6)** W'p'g'u'u'v'j g'upcr j q'q'n'i'k'c'q'up'k'p'i "v'f'r g'c'p'f' f'g'uk' p'g'f' "h'q't"y'j g' h'q'u'y' k'p'i "eapppgevg'q'p'u'upcr j q'q'n'i' u'j cni'p'q'v'd'g'p'i ci g'f'c' "

**1926.502(d)(6)(i)** f'k'g'e'v'f' "v'q'y'j g'dd'k'p'i .l'q'r g'q't'y' k'g't'q'r g'c' "

**1926.502(d)(6)(ii)** v'q'g'c'ej "q'y'j g'c' "

**1926.502(d)(6)(iii)** v'q" c' "F'g'g' t'k'p'i " v'q" y j lej " c'p'q'y' g't" upcr j q'q'n'i' q't" q'y' g't" eapppgevg'f' k'u'c'w'c'ej g'f'c' "

**1926.502(d)(6)(iv)** v'q'c'j' q't'k' q'p'v'c'i'f'k'g'p'g'g'q't' "

**1926.502(d)(6)(v)** v'q" c'p'f' " q'd'g'v' y j lej " k'u" l'p'eqo r c'v'd'k'f' " u'j c'r g'f' " q't" f'k'o g'p'uk'p'g'f' " k'p" t'g'r'v'k'q'p' v'q" y'j g' upcr j q'q'n'i' u'w'ej " v'j c'v' w'p'k'v'g'p'v'k'p'c'n' f' l'k'g'p'i ci go g'p'v'eq'w'f' "q'ee'w'f'd' f'v'j g'eapppgevg'f' q'd'g'v'd'g'k'p'i "c'd'ng'v'q'f'g'r't'g'u'u'v'j g' upcr j q'q'n'i'ng'g'r't'c'p'f' "f'g'g'c'g'v'k'g'f'f'f' "

**1926.502(d)(7)** Q'p" u'w'r g'p'f'g'f' " u'ec'h'q'n'f' u" q't" u'k'o k'c't' " y' q't'n'f' r'c'v'q't'o u" y' k'j " j' q't'k' q'p'v'c'i'f'k'g'p'g'u'y' j lej " o' c' "d'g'eqo g'x'g't'v'c'c'n'f'k'g'p'g'u."v'j g'f'g'x'k'g'u'w'g'f'v'q" eapppgevg'v'q'c'j' q't'k' q'p'v'c'i'f'k'g'p'g'u' u'j cni'dg'ec'r c'd'ng'q'h'i'q'up'k'p'i "k'p'd'q'y' "f'k'g'e'v'k'q'p'u" q'p'y'j g'h'k'g'p'g'f' "

**1926.502(d)(8)** J' q't'k' q'p'v'c'i'f'k'g'p'g'u' u'j cni'dg'f'g'uk' p'g'f'0' l'p'uc'ng'f'0' c'p'f' "w'g'f' " w'p'f'g't'v'j g' u'w'r g't'x'k'k'q'p'q'h'c'c'w'k'h'k'g'f' r'g't'g'u'p'f'c'u'r'c't'v'q'h'c'eqo r r'ng'v'g't'g't'g'p'c'n'f'c'm'f' c'tt'g'u'v'f' u'ng'o .y' j lej "o' c'k'p'v'k'p'u'c' u'c'g'e'v'f' "h'c'v'q't'q'h'c'v'g'c'u'v'v' y' q'0' "

**1926.502(d)(9)** N'c'p'c't'f' u" c'p'f' " x'g't'v'c'c'n'f' k'g'p'g'u' u'j cni'd'j' c'x'g'c' " c' " o' l'p'o' w'o " d't'g'c'k'p'i "u'w'g'p'i v'j "q'h'7.222'r'q'w'p'f' u'440'f'n'p'40' "

**1926.502(d)(10)(i)** G'z'g'r'v'c'u'r' t'q'x'k'f'g'f' "l'p'r'c't'c'i' t'c'r'j' "f'c'32-#k'e'q'h'y'j k'u'g'e'v'k'q'p' " y'j g'p'x'g't'v'c'c'n'f'k'g'p'g'u'c't'g'w'g'f' .g'c'ej "g'o r'ng'f'g'g'v'j c'm' d'g'c'w'c'ej g'f'v'q'c' u'g'r'c't'c'v'g'h'k'g'p'g'f' "

**1926.502(d)(10)(ii)** F'w'k'p'i " v'j g' eap'p'v'w'e'v'k'q'p' q'h' g'x'c'v'c't' " u'j c'h'u " v'y'q" go r'ng'f'g'g'u' o' c' "d'g'c'w'c'ej g'f'v'q'v'j g'g'u'c'o' r'ng'h'k'p'g'p'k'p'v'j g'j' g'k'q'u'y' c'f' .r' t'q'x'k'f'g'f' " d'q'y' "go r'ng'f'g'g'c't'g'y' q't'k'p'i "c'v'q' "c' h'c'ng'c'c't'v'j c'v'k'u'g's'w'r'g'f' "y' k'j "i' w'c't'f' t'c'k'u'c' v'j g' u'w'g'p'i v'j "q'h'v'j g'h'k'g'p'g'k'32.222'r'q'w'p'f' u'440'f'n'p'40' "c'r'r' r'ng'f'v'q'v'j g'f'g'x'k'g'y' k'j "go r'ng'f'g'g' c'w'c'ej g'f'c' "660'f'n'p'40' c'p'f' "c'm'q'y'j g't" e't'k'g'f'c' "k'p" u'j k'j r'c't'c'i' t'c'r'j' "h'q't" r'ng'h'k'p'g'u'j' c'x'g'd'g'g'p'o' g'0' "

**1926.502(d)(11)** N'h'k'g'p'g'u' u'j cni'd'g'r't'q'g'v'g'f'c'i' c'k'p'v'd'g'k'p'i "e'w'q't'c'd'c't'f'g'f'0' "

**1926.502(d)(12)** U'g'h't'g't'c'v'k'p'i " r'ng'h'k'p'g'u' c'p'f' "n'c'p'c't'f' u'y' j lej "c'w'q'o' c'v'c'c'm'f' " n'o' k'u'f'g'g' h'c'm'f' k'uc'p'eg'v'q'4' h'g'v'v'2083' "o' +q't' "n'g'u'0'f' t'k' u'k'ej "n'c'p'c't'f' u" c'p'f' "v'c't'k'p'i "c'p'f' " f'g'h'q't'o' k'p'i "n'c'p'c't'f' u'j cni'd'g'ec'r c'd'ng'q'h'i'w'w'c'k'p'k'p'i "c'o' l'p'o' w'o "v'g'p'k'g'v'q'f' "q'h'502'r'q'w'p'f' u'440'f'n'p'40' "c'r'r' r'ng'f'v'q'v'j g'f'g'x'k'g'y' k'j " v'j g'h'k'g'p'g'q't' "n'c'p'c't'f' "l'p'v'j g'h'w'f' "g'z'v'g'p'f'g'f' "r'q'uk'k'p'0' "

**1926.502(d)(13)** U'g'h't'g't'c'v'k'p'i " r'ng'h'k'p'g'u' c'p'f' "n'c'p'c't'f' u'y' j lej "f'q'p'q'v'f'k'o' k'u'f'g'g' h'c'm'f' k'uc'p'eg'v'q'4' h'g'v'v'2083' "o' +q't' "n'g'u'0'f' t'k' u'k'ej "n'c'p'c't'f' u" c'p'f' "v'c't'k'p'i "c'p'f' " f'g'h'q't'o' k'p'i "n'c'p'c't'f' u'j cni'd'g'ec'r c'd'ng'q'h'i'w'w'c'k'p'k'p'i "c'o' l'p'o' w'o "v'g'p'k'g'v'q'f' "q'h' 7.222'r'q'w'p'f' u'440'f'n'p'40' "c'r'r' r'ng'f'v'q'v'j g'f'g'x'k'g'y' k'j "v'j g'h'k'g'p'g'q't' "n'c'p'c't'f' "l'p' v'j g'h'w'f' "g'z'v'g'p'f'g'f' "r'q'uk'k'p'0' "

**1926.502(d)(14)** T'q'r'g'u'c'p'f' "u't'c'r' u"y'j g'dd'k'p'i "w'g'f' "k'p' "n'c'p'c't'f' u" r'ng'h'k'p'g'u' c'p'f' " u'w'g'p'i v'j "eqo r'q'p'g'p'w'q'h'd'q'f' { "d'g'n'u'c'p'f' "d'q'f' { "j' c't'p'g'u'g'u' u'j cni'd'g'o' c'f'g' "h'q'o " u'f'p'y' g'w'e'f'k'g'u'f' "

**1926.502(d)(15)** C'p'ej q't'c'i' g'u' w'g'f' "h'q't" c'w'c'ej o' g'p'v' q'h' r'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' g's'w'r' o' g'p'v' u'j cni'd'g'k'p'f'g'r'g'p'f'g'p'v'q'h'c'p'f' { "c'p'ej q't'c'i' g'd'g'k'p'i "w'g'f' "v'q' "u'w'r' r'q't'v'q't' " u'w'r' g'p'f' "r'c'v'q't'o' u'c'p'f' "ec'r c'd'ng'q'h'i'w'w'r' r'q't'v'k'p'i "c'v'g'c'u'v'7.222'r'q'w'p'f' u'440'f'n'p'40' " r'g't'g'o r'ng'f'g'g'c'w'c'ej g'f' .q't' u'j cni'd'g'f'g'uk' p'g'f' .l'p'uc'ng'f' .c'p'f' "w'g'f' "c'u'h'q'u'y' u'c' "

**1926.502(d)(15)(i)** c'u'r'c't'v'q'h'c' "eqo r'ng'v'g' r'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o "y' j lej " o' c'k'p'v'k'p'u'c' u'c'g'e'v'f' "h'c'v'q't'q'h'c'v'g'c'u'v'v' y'c'c'p'f' "

**1926.502(d)(15)(ii)** w'p'f'g't'v'j g' u'w'r g't'x'k'k'q'p'q'h'c'c'w'k'h'k'g'f' r'g't'g'u'p'f'0' "

**1926.502(d)(16)** R'g't'g'p'c'n'f'c'm'f'c'tt'g'u'v' u'f' u'ng'o u'j g'p'w'q'r' r'k'p'i "c' h'c'm' u'j c'm'c' "

**1926.502(d)(16)(i)** n'o' k'u' o' c'z'k'o w'o "c'tt'g'w'k'p'i "h'q'teg"q'p'c'p' "go r'ng'f'g'g'v'q" ; 22" r'q'w'p'f' u'6'f'n'p'40' y'j g'p'w'g'f'v'j k'j "c'd'q'f' { "d'g'n'c' "

"

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**1926.502(d)(16)(ii)** n'o' k'u' o' c'z'k'o w'o "c'tt'g'w'k'p'i "h'q'teg"q'p'c'p' "go r'ng'f'g'g'v'q"3. : 22" r'q'w'p'f' u'6'f'n'p'40' y'j g'p'w'g'f'v'j k'j "c'd'q'f' { "j' c't'p'g'u'g'u'c' "

**1926.502(d)(16)(iii)** "d'g'f'k'i' i' g'f' "u'w'ej "v'j c'v'c'p' "go r'ng'f'g'g'v'q"e'c'p' "p'g'k'j g't' "h'g'g' "h'c'm'f' o' q't'g'v'j c'p'8' h'g'v'v'30' "o' +p'q't' "eap'p'c'v'c'p'f' "h'q'y'j g'x'g'f' "h'g'x'g'n'c' "

**1926.502(d)(16)(iv)** d't'k'p'i " c'p' " go r'ng'f'g'g'v'q" " c' " eqo r'ng'v'g' "u'w'r' " c'p'f' " n'o' k'u' o' c'z'k'o w'o "f'g'g'g't'c'v'k'q'p'f' k'uc'p'eg'v'q'p' "go r'ng'f'g'g'v'c'x'g'u'v'q'50' h'g'v'v'3029' "o' +c'p'f' . " "

**1926.502(d)(16)(v)** j' c'x'g'f' u'w'h'k'g'p'v' u'w'g'p'i v'j "v'q'y'j k'j u'w'c'p'f' "v'y' l'eg'v'j g'r'q'v'g'p'k'c'n'f' l'o' r'c'v'g'p'g't'i' { "q'h'c'p' "go r'ng'f'g'g'v'q" h'c'm'f' "c'f' k'uc'p'eg'v'q'h'8' h'g'v'v'30' "o' +q't'v'j g' "h'g'g' h'c'm'f' k'uc'p'eg'v'g't'o' k'w'g'f' "d' { "v'j g' u'f' u'ng'o .y' j lej g'x'g'f' "k'u'f'g'u'f' " "

**Note:** K'i' v'j g' r'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o " o' g'g'w'v'j g' "e't'k'g'f'c' "c'p'f' "r't'q'v'c'eq'n'u' eap'p'c'p'g'f' "l'p'c'r'r'g'p'f'k'z' "E'v'q' "u'w'd'r'c't'v'0'c'p'f' "k'i'v'j g'u'f' u'ng'o "k'u'd'g'k'p'i "w'g'f' "d' { "c'p' " go r'ng'f'g'g'v' c'x'k'p'i "c'eqo d'k'p'g'f' "r'g't'g'p'c'p'f' "q'q'n'y' g'k'i' j' v'q'h'g'u'v'j c'p'532'r'q'w'p'f' u'440'f'n'p'40' "n'i' + " v'j g' u'f' u'ng'o "y' k'm'f' d'g' "eap'p'k'g'f'g'f' "v'q' "d'g' "l'p' "eqo r'ng'c'p'eg'v'j k'j "v'j g' r't'q'x'k'k'q'p'u'q'h'r'c't'c'i' t'c'r'j' "f'c'38-#q'h'y'j k'u'g'e'v'k'q'p'0'k'i'v'j g' u'f' u'ng'o "k'u'w'g'f' "d' { "c'p' " go r'ng'f'g'g'v' c'x'k'p'i "c'eqo d'k'p'g'f' "v'q'q'n'c'p'f' "d'q'f' { "y' g'k'i' j' v'q'h'532'r'q'w'p'f' u'440'f'n'p'40' "n'i' +q't' " o' q't'g' "v'j g'p'v'j g'g'o r'ng'f'g'g'v' c'r'r' t'q'r' t'c'v'g'n'f' "o' q'f'k'h' "v'j g'e't'k'g'f'c' "c'p'f' "r't'q'v'c'eq'n'u' q'h'y'j g'c'r'r'g'p'f'k'z' "v'q'r' t'q'x'k'f'g'r' t'q'r'g't'r' t'q'v'g'v'k'q'p' "h'q't' "u'w'ej "j' g'x'k'g'f'v'j g'k'i' j' u'f' "q't'v'j g' " u'f' u'ng'o "y' k'm'f'p'q'v'd'g'f'g'g'o g'f' "v'q' "d'g' "l'p' "eqo r'ng'c'p'eg'v'j k'j "v'j g' "t'g's'w'k'g'o g'p'w'f' q'h' r'c't'c'i' t'c'r'j' "f'c'38-#q'h'y'j k'u'g'e'v'k'q'p'0' "

**1926.502(d)(17)** V'j g'c'w'c'ej o' g'p'v'r' q'k'p'v'q'h'y'j g'd'q'f' { "d'g'n'v'j cni'd'g'v'q'c'v'g'f' "l'p'v'j g' " eap'p'g't' "q'h'y'j g'y' g'c't'g't'u'd'c'c'c'n'0' "v'j g'c'w'c'ej o' g'p'v'r' q'k'p'v'q'h'y'j g'd'q'f' { "j' c't'p'g'u'v'j cni'd'g'v'q'c'v'g'f' "l'p'v'j g' "eap'p'g't' "q'h'y'j g'y' g'c't'g't'u'd'c'c'c'n'p'g'c't' "u'j q'w'f'g't' "h'g'x'g'n' "q't'c'd'q'x'g'v'j g' " y' g'c't'g't'u'j' g'c'f'0' "

**1926.502(d)(18)** D'q'f' { "d'g'n'u'0'j' c't'p'g'u'g'u'f' c'p'f' "eqo r'q'p'g'p'w' u'j cni'd'g'w'g'f' "q'p'n' " h'q't' "go r'ng'f'g'g'v' t'q'v'g'v'k'q'p' "c'u'r'c't'v'q'h'c' "r'g't'g'p'c'n'f'c'm'f'c'tt'g'u'v' u'f' u'ng'o "q't' "r'q'uk'k'p'k'p'i " f'g'x'k'g'v' u'f' u'ng'o +c'p'f' "p'q'v'q'j' q'k'u'v'o' c'v'g't'k'c'm'0' "

**1926.502(d)(19)** R'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o u'j c'p'f' "eqo r'q'p'g'p'w' u'w'd'g'v'g'f' "v'q" l'o' r'c'v'v'q'c'f' k'p'i "u'j cni'd'g' "l'o' o' g'f'k'c'v'g'n'f' "t'g'o' q'x'g'f' "h'q'o "u'g't'x'k'g' "c'p'f' "u'j cni'd'p'q'v'd'g' "w'g'f' "c'i' c'k'p' "h'q't" "go r'ng'f'g'g'v' t'q'v'g'v'k'q'p' "w'p'k'f' "l'p'ur'g'v'g'f' "c'p'f' "f'g'v'g't'o' k'p'g'f' "d' { " c' " eqo r'g'v'g'p'v'r'g't'g'p'f' "v'q' "d'g'w'p'f' c'o' c'i' g'f' "c'p'f' "u'w'k'c'd'ng' "h'q't' "t'g'w'g'f'0' "

**1926.502(d)(20)** V'j g'g'o r'ng'f'g'g'v' { g't'v'j cni'd' t'q'x'k'f'g'f' "h'q't' "r' t'q'o r'v'g'w'g'v'q'h'g'o r'ng'f'g'g'u' "k'p" v'j g' "g'x'g'p'v' q'h'c' "h'c'm'f' q't' "u'j cni'd' c'u'w'g'v'j v'j c'v' go r'ng'f'g'g'u' "c't'g' c'd'ng' "v'q" "t'g'w'g'v' "v'j go u'g'm'g'u'f' "

**1926.502(d)(21)** R'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o u'j cni'd'g' "l'p'ur'g'v'g'f' "r' t'k'q't' "v'q'g'c'ej " w'g'f' "h'q't' "y' g'c't' .f'c'o' c'i' g'c'p'f' "q'y'j g't' "f'g'v'g't'k'q'c'v'k'q'p' .c'p'f' "f'g'g'e'v'k'g' "eqo r'q'p'g'p'w' u'j cni'd'g' "t'g'o' q'x'g'f' "h'q'o "u'g't'x'k'g'f'0' "

**1926.502(d)(22)** D'q'f' { "d'g'n'u'v'j c'33' "d'g' "c'v'ng'c'u'v'q'p'g' "c'p'f' "h'x'g'v'g'k'i' j' v'j u'43' "7'k' +f' k'p'g'j' u'460'f'n'p'40' +y' k'f'g'f'0' "

**1926.502(d)(23)** R'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o u'j cni'd'p'q'v'd'g'c'w'c'ej g'f' "v'q"i' w'c't'f' t'c'k'i' u'f' u'ng'o u' "p'q't' "u'j cni'd'j' g'f' "d'g' "c'w'c'ej g'f' "v'q"j' q'k'u'v' "g'z'g'r'v'c'u' "u'r' g'k'h'k'g'f' "k'p" "q'y'j g't" "u'w'd'r'c't'v'q'h'y'j k'u'r'c't'v'0' "

**1926.502(d)(24)** Y' j' g'p' "c'r'g't'g'p'c'n'f' h'c'm'f' c'tt'g'u'v' u'f' u'ng'o "k'u'w'g'f' "c'v'j' q'k'u'v'c't'g'c'u' .k'u" u'j cni'd'g'f'k'i' i' g'f' "v'q'c'm'q'y' "v'j g'o' q'x'g'o' g'p'v'q'h'y'j g'g'o r'ng'f'g'g'v'p'n' "c'u'f'c't'c'u'v'j g'g'f'f' i' g' "q'h'y'j g'y' c'm'k'p'i "l'y' q't'k'p'i "u'w'h'c'g'f'0' "

**1526.502(e) R'q'uk'k'p'k'p'i "f'g'x'k'g'v'q'f' u'ng'o u'0'0' R'q'uk'k'p'k'p'i "f'g'x'k'g'v' u'f' u'ng'o u'c'p'f' "v'j g'k' "w'g'f' u'j cni'd'q'p'g'h't'o' "v'q'v'j g'h'q'u'y' k'p'i "r'q'x'k'k'q'p'0' "**

**1926.502(e1(1)** R'q'uk'k'p'k'p'i "f'g'x'k'g'v' u'j cni'd'g'f'k'i' i' g'f' "u'w'ej "v'j c'v'c'p' "go r'ng'f'g'g'v' "e'c'p'p'q'v'f'g'g'v' h'c'm'f'o' q't'g'v'j c'p'4' h'g'v'v'08' "o' +0' "

**1926.502(e)(2)** R'q'uk'k'p'k'p'i "f'g'x'k'g'v' u'j cni'd'g' "u'g'ew'g'f' "v'q" "c'p'ej q't'c'i' g'ec'r c'd'ng' "q'h'w'r' r'q't'v'k'p'i "c'v'g'c'u'v'v' y' l'eg'v'j g'r'q'v'g'p'k'c'n'f'o' r'c'v'v'q'c'f' "q'h'c'p' "go r'ng'f'g'g'u'v' h'c'm'f'q't' "50222'r'q'w'p'f' u'4350'f'n'p'40' +y' j' lej g'x'g'f' "k'u'f' t'g'c'v'f'0' "

**1926.502(e)(3)** Eapppgevg'v'q't' u'j cni'd'g'f' "h'q't'i' g'f' .r't'g'w'g'f' "q't' "h'q't'o' g'f' "u'w'g'n' "q't" " o' c'f'g'q'h'g's'w'k'c'ng'p'v'o' c'v'g't'k'c'm'0' "

**1926.502(e)(4)** "Eapppgevg'v'q't' u'j cni'd'j' c'x'g'c' "e'q't't'q'uk'q'p'f'g'k'uc'p'v'f' h'k'p'k'j' . "c'p'f' "c'm'f' "u'w'h'c'g'u'c'p'f' "g'f'i' g'u'v'j cni'd'g' "u'o' q'q'y' "v'q"r't'g'x'g'p'v'f' c'o' c'i' g'v'q' "l'p'v'g't'k'c'k'p'i "r'c't'v'q'h' "v'j k'u'f' u'ng'o 0' "

**1926.502(e)(5)** "Eapppgevg'v'q't' "c'w'g'o d'r'g'u'v'j cni'd'j' c'x'g'c' "o' l'p'o' w'o "v'g'p'k'g'v' u'w'g'p'i v'j " q'h'7.222'r'q'w'p'f' u'440'f'n'p'40' +f' "

**1926.502(e)(6)** F'g'g'v' t'k'p'i u'c'p'f' "u'p'c'r'j' q'q'n'i' u'j cni'd'g'r' t'q'q'h'v'g'v'g'f' "v'q" "c'o' l'p'o' w'o "v'g'p'k'g'v' "u'c'f' "q'h'5.822'r'q'w'p'f' u'438'f'n'p'40' +y' k'j q'w'f'et'c'c'n'k'p'i . "d't'g'c'k'p'i "q't' "v'c'n'k'p'i " r'g't'o' c'p'g'p'v'f' g'h'q't'o' c'v'k'q'p'0' "



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## Fall Protection

### §1926.503 Training requirements.

Vj g" hqmy lpi " vclplpi " rtxkukpu" uwr ngo gpv" cpf" erctkhl" yj g" tgs vktgo gpw'qh'E3; 48043'tgi ctf lpi "yj g'j c| ctf u'cf f tguwgf "lp'uwdr/ rctvO " qh'yj ku'rctvO'

**1926.503(a) Vtclplpi "Rtqi tco O' "K:** Vj g" go r nq {gt" uj cmi' r txxkf g" c" vclplpi " r tqi tco " hqt" gcej" go r nq {gg" y j q" o k j v' dg" gzzr qugf" vq" hcm' j c| ctf uO' Vj g" r tqi tco " uj cmi' gpcdng" gcej" go r nq {gg" vq" tgeqi plk g" yj g" j c| ctf u'qh'hcmlpi "cpf" uj cmi'vclplpi" gcej" go r nq {gg"lp" yj g" r tqegf wtu'vq" dg" hqmy gf "lp'qtf gt" vq" o kpo k g'yj gug'j c| ctf uO'

**1926.503(a)(2) Vj g" go r nq {gt" uj cmi'cuwag" yj cv'gcej" go r nq {gg"j cu'dggp" vclplpi O'cu"pgeguat { O'd { "c" eqo r gvepvr'gtuap"s wckhgf "lp" yj g" hqmy lpi " ctgcuk"**

**1926.503(a)(2)(i) Vj g'pcwtg'qh'hcmlj c| ctf u'lp" yj g'y qtmktgc<**

**1926.503(a)(2)(ii) Vj g" eqttgev" r tqegf wtu' hqt" gtgevpi . "** o clpvcplpi . " f kucuo go dki . "cpf "lpur gevpi " yj g'hcml' r tqegvklp'u'ungo u'vq' dg'vugf <

**1926.503(a)(2)(iii) Vj g"wug"cpf" q' r gtcvklp'qh'i wctf tckl'u'ungo uO'r gtuqpcr' hcm' cttgu' u'ungo u. "uchgv" pgv' u'ungo u. "y ctpkpi " rdp" u'ungo u. "uchgv" o qpkqtkpi "u'ungo u. "eqp'qmgf "ceeguu" qpgu. "cpf" q'yj gt" r tqegvklp' vq" dg" wugf <**

**1926.503(a)(2)(iv) Vj g'tqng'qh'gcej" go r nq {gg"lp" yj g"uchgv" o qpkqtkpi " u'ungo " yj g'p' yj ku'u'ungo "ku'vugf <**

**1926.503(a)(2)(v) Vj g'uko kcvklp'u"p" yj g"wug"qh'o gej cplecr'gs wko gpv' f wtkpi " yj g'r gthqto cpeg'qh'tqqhki " yj qtmkq'ny /unr gf "tqghu<**

**1926.503(a)(2)(vi) Vj g"eqttgev" r tqegf wtu' hqt" yj g'j cpf rki "cpf" uqtcu" qh'gs wko gpv'cpf" o cvgtkcu'cpf" yj g'gtgevklp'qh'xgtj gcf" r tqegvklp'="cpf"**

**1926.503(a)(2)(vii) Vj g'tqng'qh'go r nq {gg'u'lp'hcml' r tqegvklp' r rpu<**

**1926.503(a)(2)(viii) Vj g'ucpf ctf u'eqpvcplpgf "lp" yj ku'uwdr ctfO'**

**1926.503(b) "Egtvklp"qh'vclplpi O' "K:** Vj g" go r nq {gt" uj cmi' xgtkhl" eqo r rkepeg" yj ksj " rctci tcr j " "c" qh' yj ku'ugevklp" d { " r tgr ctkpi " c" y tlvcp" egtvklp" tgeqtf O' Vj g' y tlvcp" egtvklp" tgeqtf " uj cmi' eqpvcplp' yj g" pco g'qt' q'yj gt' f gpw { "qh'yj g'go r nq {gg'vclplpgf O'yj g'f cvg'u'qh'yj g'vclplpi O' cpf " yj g" uki pcwtg" qh' yj g' r gtuq" y j q" eqpf vevgf " yj g' vclplpi " qt" yj g" uki pcwtg'qh'yj g'go r nq {gtO'K' yj g'go r nq {gt" tgrku'qp" vclplpi " eqpf vevgf" d { " cpqy gt" go r nq {gt" qt" eqo r rgev" r tkt" vq" yj g" gh'gevkg" f cvg" qh' yj ku'ugevklpO' yj g' egtvklp" tgeqtf " uj cmi' lpf kcvg" yj g" f cvg" yj g" go r nq {gt" f gvgto lpgf " yj g' r tkt" vclplpi " yj cu'cf gs wcvg' tcv gt" yj cp" yj g' f cvg" qh'cewcr' vclplpi "

**1926.503(b)(2) Vj g'rcvuv'vclplpi "egtvklp"uj cmi'dg" o clpvcplpgf O'**

**1926.503(c) Tgtclplpi O'Y** j gp' yj g" go r nq {gt" uj cu' tgcup" vq" dgrkxg" yj cv' cp { "ch'gev" go r nq {gg" y j q" j cu' cttgcf { " dggp" vclplpgf " f qgu'pqv' j cxg" yj g" wpf gtuucplpi " cpf " unkm' tgs wktgf" d { " rctci tcr j "c" qh' yj ku'ugevklpO' yj g" go r nq {gt" uj cmi' tgvclp" gcej " uwej " go r nq {ggO' Ektewo ucpegu" y j g'gt" tgvclplpi "ku'tgs wktgf "lpexf gO'dw'ctg"pqv'tko ksf "vq. "ukwcvklpu' y j g'gt<

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**1926.503(c)(1)** Ej cpi gu'lp' yj g'y qtnr wcv' tgpfgt' r t g x k w u' v c l p l p i " q d u q n g v - d q t "

**1926.503(c)(2)** Ej cpi gu'lp' yj g'v' f r g u' q h' h c m l' r t q e g v k l p " u' u n g o u' q t " g s w k r o g p v' v q " d g' w u g f' t g p f g t' r t g x k w u' v c l p l p i " q d u q n g v - d q t "

**1926.503(c)(3)** K p c f g s w e l g u' l p' c p' c h' g e v g f' g o r n q { g g' u' n p q y n g f i g' q t' w u g' q h' h c m l' r t q e g v k l p " u' u n g o u' q t' " g s w k r o g p v' l p f l e c v g' yj c v' yj g' g o r n q { g g' j c u' p q v' t g v c l p g f' yj g' t g s w k s g' w p f g t u n c p f l p i " q t' u n k m O'

**Note:** Vj g" hqmy lpi " crr gp' legu' vq" uwdr ctf O' " qh' yj ku' r ctf v' uxtg" cu" pqp/ o cpf cvqt { " i w k f g r i p g u' v q " c u u k v' g o r n q { g t u' l p' e q o r n l p i " y k j " y j g' c r r t q r t k v g " t g s w k s g o g p w' q h' u w d r c t v O' " q h' yj k u' r c t v O'

"

## Appendix A to Subpart M-Determining Roof Widths Non-mandatory Guidelines for Complying With §1926.501(b)(10)

\*3+Vj ku' Crr gp' k f' u g t x g u' c u' c' i' w k f g r i p g' v q " c u u k v' g o r n q { g t u' e q o r n l p i " y k j " y j g' t g s w k s g o g p w' q h' E3; 480723'd+32+0' Ugevklp" 3; 32072nd+32+0' Jule" 3; 480723'd+32+0'cnqy u'v' g'wug'qh'c'uchgv" o qpkqtkpi "u'ungo "cnpg'cu'c" o gcpu" qh' r t x k f l p i " h c m l' r t q e g v k l p " f w k p i " y j g' r g t h q t o c p e g' q h' t q q h k i " q r g t c v k p u' q p " n y / u n r g f " t q q h u' 72" h g v' \*37047" o + " q t' n g u u' l p' y k f yj O' Gcej " g z c o r n g' l p' yj g' c r r g p f k z' u j q y u' c' t q q h' r n p' q t' r n p u' c p f' l p f l e c v g u' y j g t g' g c e j " t q q h' q t' t q q h' c t g c " k u' q' d g' o g e u w g f " v q' f g v g t o l p g' k u' y k f yj O' U g e v k l p " x l g y u' q t' g n g x c v k p u' x l g y u' c t g " u j q y p " y j g t g' c r r t q r t k v g O' U q o g' g z c o r n g u' u j q y " S e q t t g e v s " c p f " S l p e q t t g e v s " u w d f k x k u k p u' q h' k t g i w c t n f " u j c r g f " t q q h u' f k k f g f " l p v q' u o c n g t O' t g i w c t n f " u j c r g f " c t g e u O' K' c m l' g z c o r n g u O' yj g' f l o g p u k p u' u g n e v g f " v q' d g' yj g' y k f yj " q h' c p' c t g c' k u' yj g' n g u u g t " q h' yj g' y q " r t l o c t { " f l o g p u k p u' q h' yj g' c t g c O' c u' x l g y g f " h t q o " c d q x g O' G z c o r n g' C " u j q y u' y c v' q p' c' u l o r n g' t g e v c p i w c t' t q q h' y k f yj " k u' yj g' n g u u g t' q h' yj g' y q " r t l o c t { " q x g t c m l' f l o g p u k p u O' Vj k u' k u' c n q' yj g' e c u g' y k j " t q q h u' y j k e j " c t g " u n r g f " v q y c t f' q t' c y c l' h t q o " yj g' t q q h' e g p g t' . c u' u j q y p' l p' G z c o r n g' D O'

\*4+O cp { " t q q h u' c t g' p q v' u l o r n g' t g e v c p i n g u O' U w e j " t q q h u' o c l' d g' d t q' n g p' f q y p' l p v q " u w d c t g e u' c u' u j q y p' l p' G z c o r n g' E O' Vj g' r t q e g u u' q h' f k k f l p i " c' t q q h' c t g c' e c p " r t q f w e g " o c p l' f k h g t g p v' e q p h i w c v k p u O' G z c o r n g' E " i k x g u' yj g' i g p g t c n l' t w e g' q h' w u k p i " f k k f l p i " r d p g u' q h' o k p o w o " n g p i yj " v q' o k p o k g' yj g' u k g' c p f' p w o d g t' q h' yj g' c t g e u' y j k e j " c t g' r q e g v c m l' " n g u u' yj c p' 72" h g v' \*37047" o + y k f g O' Vj g' l p v e p v' k u' v q " o k p o k g' yj g' p w o d g t' q h' t q q h' c t g e u' y j g t g' u c h g v' " o q p k q t k p i " u' u n g o u' c n p g' c t g " u w h k e l g e p v' r t q e g v k p O'

\*5+T q q h u' y j k e j " c t g' e q o r t k a g f " q h' u g x g t c n l g r c t v g O' p q p' e q p w i v q w u' t q q h' c t g e u O' c u' l p' G z c o r n g' F O' o c l' d g' e q p u k f g t g f " c u' c' u g t l g u' q h' l p f k k f w c n l' t q q h u O' U q o g' t q q h u' j c x g' r g p y q w u g u' c f f k k q p c n l' h q q t u' . e q w v c t f " q r g p l p u' . q t' u l o k u c t' c t e j k s g e w c n l' h g c w t g u - G z c o r n g' G' u j q y u' j q y " yj g' t w e g' h q t' f k k f l p i " t q q h u' l p v q " u w d c t g e u' k u' c r r i k g f " v q " u w e j " e q p h i w c v k p u O' K t g i w c t O' p q p' t g e v c p i w c t' t q q h u' o w u' d g' e q p u k f g t g f' q p' c p' l p f k k f w c n l' c u u' c u' u j q y p' l p' G z c o r n g' H'

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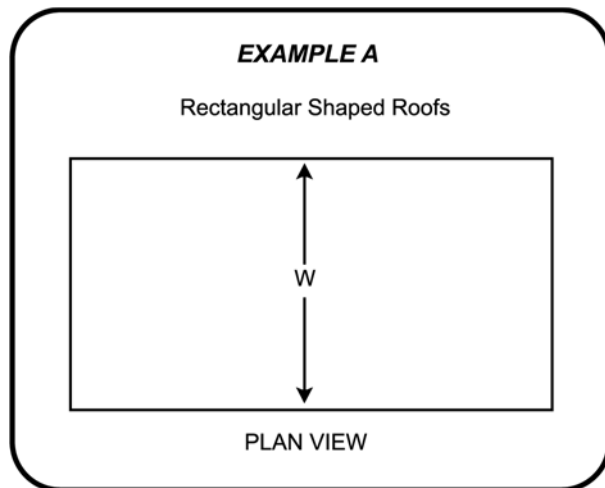
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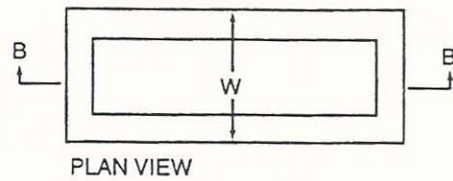
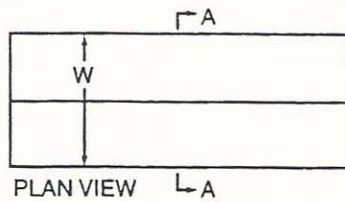
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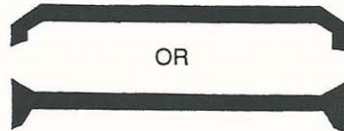


### EXAMPLE B

#### Sloped Rectangular Shaped Roofs



SECTION A-A

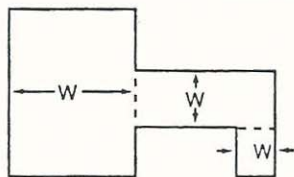


SECTION B-B

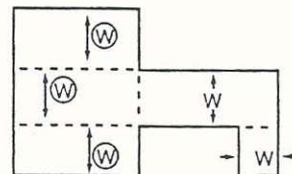
### EXAMPLE C

#### Irregularly Shaped Roofs With Rectangular Shaped Sections

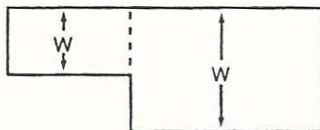
Such roofs are to be divided into sub-areas by using dividing lines of minimum length to minimize the size and number of the areas which are potentially less than or equal to 50 feet (15.25 meters) in width, in order to limit the size of roof areas where the safety monitoring system alone can be used [1926.502(b)(10)]. Dotted lines are used in the examples to show the location of dividing lines. W denotes incorrect measurements of width.



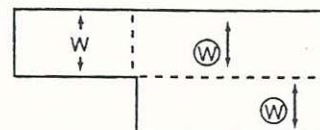
Correct



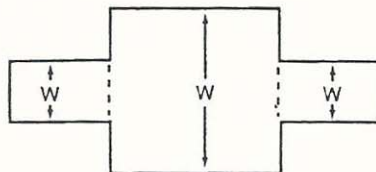
Incorrect



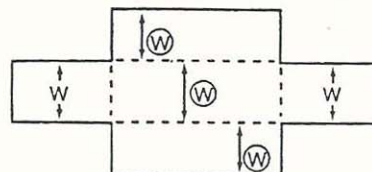
Correct



Incorrect



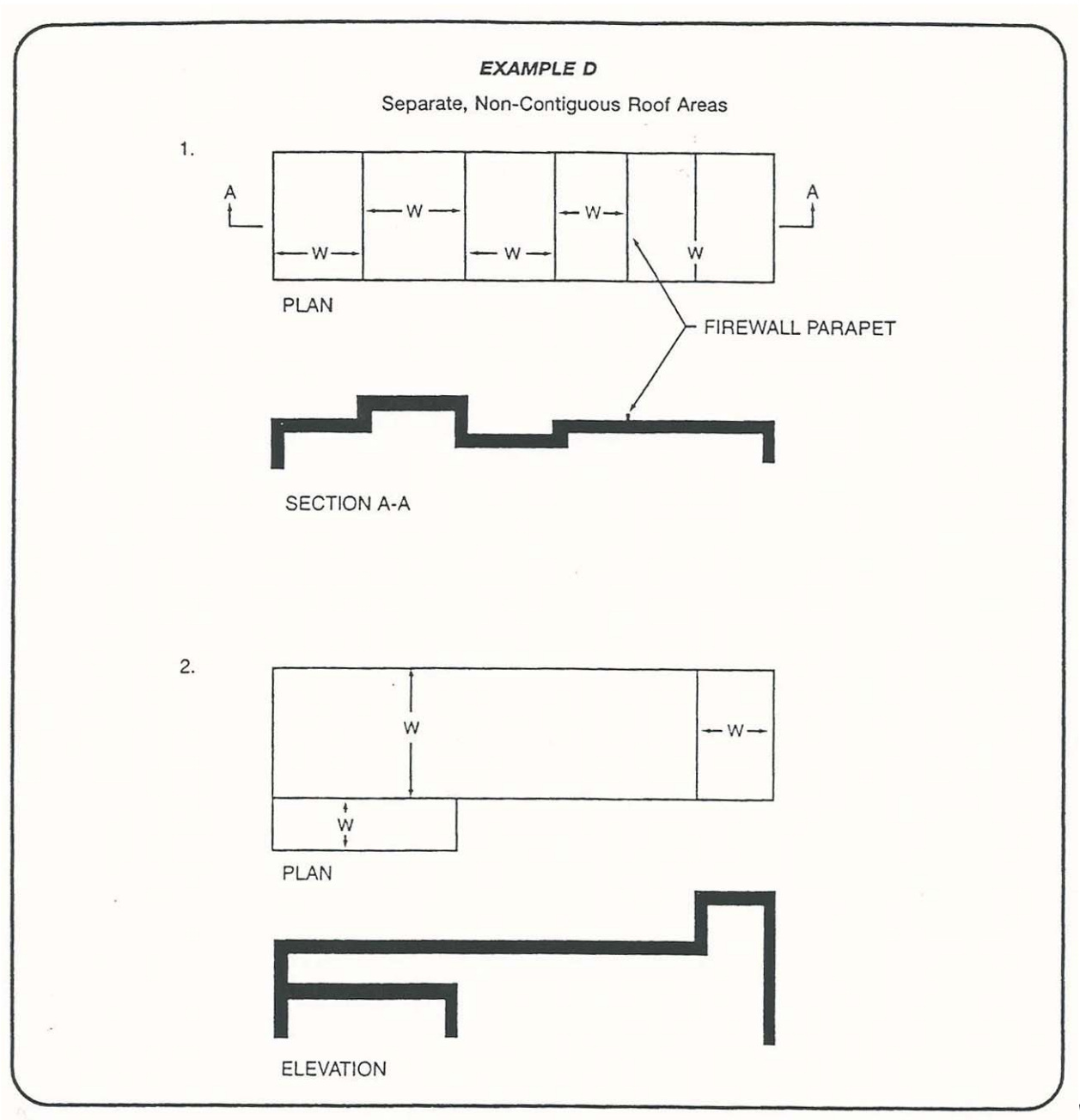
Correct



Incorrect



"

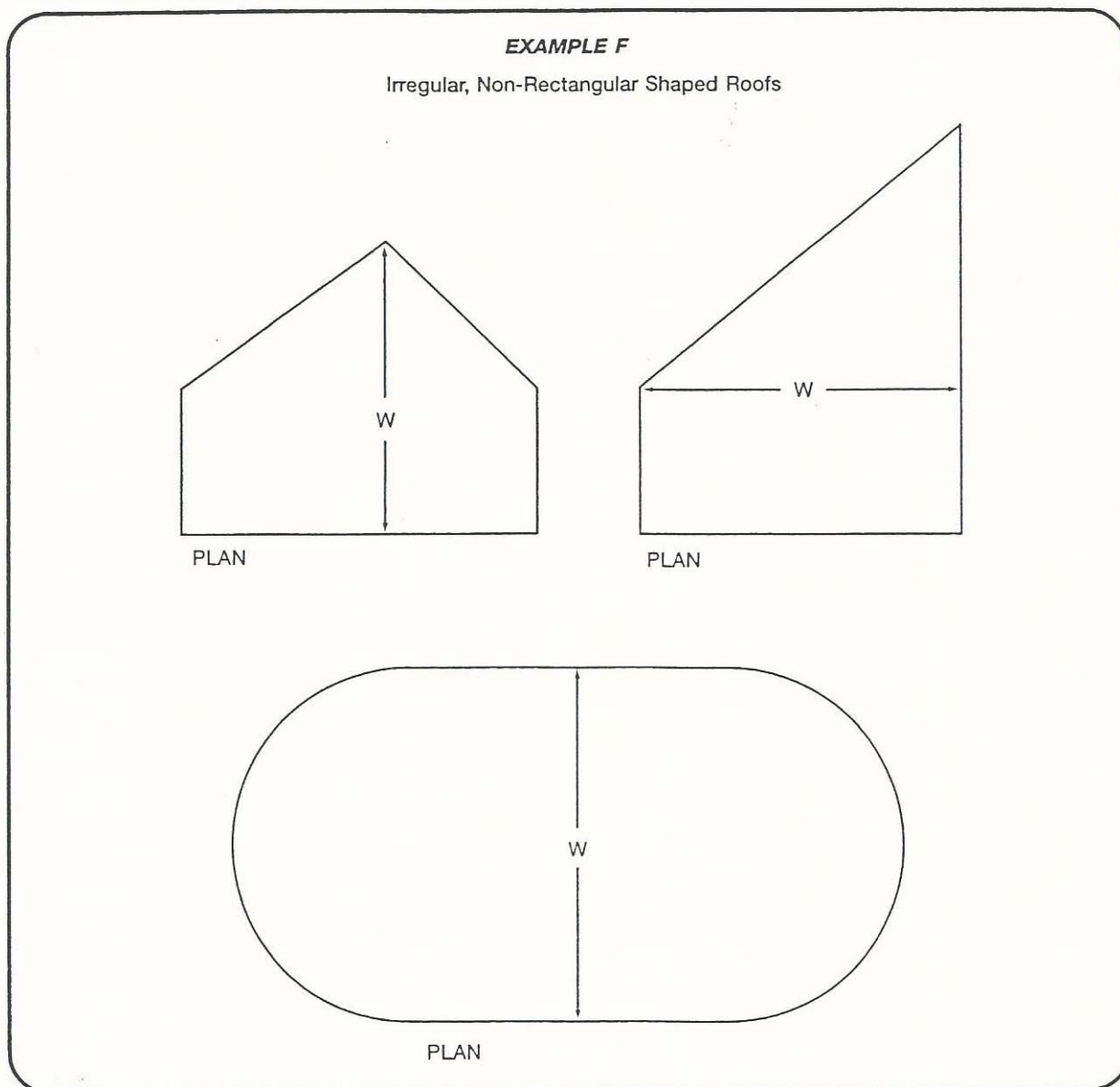


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## Appendix B to Subpart M-Guardrail Systems

### *Pqp/O cpf cvqt { 'I wlf gnlpgu' }* *hqt 'Eqo rnlpi y kj 'E3; 48024d+'*

Vj g"ucpf ctf "tgs wktgu"i wctf tckl'u{ ugo u"cpf "eqo r qpqpwu"q"dg" f guki pgf "cpf "dwkn"q"o gg"v"j g"tgs wktgo gpwu"qh'E3; 48024d+5-0 \*6+0' cpf " \*7+0' Vj ku" Crr gpflz" ugtxgu" cu" c" pqp/o cpf cvqt { " i wlf gnlpgu" vq" cuukn" go r nq {gtu" kp" eqo r nq {pi" y kj" vj g" tgs wktgo gpwu" Cp" go r nq {gt" o c { " wug" vj g" i wlf gnlpgu" cu" c" uctv"kp" r qkp" hqt" f guki plpi "i wctf tckl'u{ ugo u" J qy gxgt. " vj g" i wlf gnlpgu" f q"pqv"r tqxlf g"cm"v"j g"lphqto cvkqp"pgeguuct { "vq"dwkf" c"eqo r rvg"u{ ugo 0'cpf "v"j g" go r nq {gt" ku" ukn" t gur qpukdng" hqt" f guki plpi "cpf "cuugo drki "v"j g"ug"eqo r qpqpwu"kp"uwej "c"y c { "v"j cv" vj g" eqo r rvg"u{ ugo " y kn" o gg"v" vj g" tgs wktgo gpwu" qh'E3; 48024d+5-0\*6+ "cpf " \*7+0'Ego r qpqpwu" hqt" y j lej "pq"ur gekhe" i wlf gnlpgu" ctg" i ksgp" kp" vj ku" Crr gpflz" \*gd 0" lqlpu" dcug" eqppgevkpu" eqo r qpqpwu" o cf g" y kj" qv gt" o cvgtkn" cpf" eqo r qpqpwu" y kj "qv gt" f ko gpukpu+o wu"cnq"dg" f guki pgf "cpf" eqputwv"kp"uwej "c"y c { "v"j cv"v"j g"eqo r rvg"u{ ugo "o gg"v"v"j g" tgs wktgo gpwu"qh'E3; 480240

\*3+Hqt"y qpf "tcklpi u"Y qpf "eqo r qpqpwu"uj cni'dg"o kpo wo "3722" nl/hvlp" "Hdgt" "utgu"i tcf g"eqputwv"kp"i tcf g"nwo dgt="v"j g" quu" uj cni'dg"cv'rgcu"4/lpej "d { "6/lpej " \*7"eo "z"32"eo +nwo dgt"ur cegf" pqv'o qtg"v"j cp": "hgv"406"o +cr ctv"qp"egpvgtu"v"j g"qr "tckl'uj cm

dg"cv'rgcu"4/lpej "d { "6/lpej " \*7"eo "z"32"eo +nwo dgt"v"j g"lpgto gf kvg"tckl'uj cni'dg" cv'rgcu"3/lpej "d { "8/lpej " \*40"eo "z"37"eo +nwo dgt"0Cni'nwo dgt" f ko gpukpu"ctg" pqo kpcn'uk" gu"cu"r tqxlf gf "d { "v"j g"Co gtlecp"Uqhy qpf "Nwo dgt"Ucpf ctf u" f cvgf" lcpvct { "3; 920

\*4+Hqt"r kr g"tcklpi u"r quu"qr "tckn"0cpf "lpgto gf kvg"tcklpi u"uj cni'dg"cv'rgcu"qpg" cpf "qpg/j cni"lpej gu"pqo kpcn'f ko ggt "uej gf wgt"62"r kr g" y kj "r quu"ur cegf "pqv" o qtg"v"j cp": "hgv"406"o +cr ctv"qp"egpvgtu

\*5+Hqt"utwvwtcr"uggn'tcklpi u"r quu"qr "tckn"0cpf "lpgto gf kvg"tckn'uj cni'dg"cv' rgcu"4/lpej "d { "4/lpej " \*7"eo "z"32"eo +d { "5 l /lpej " \*30"eo +cpi rgu"y kj "r quu" ur cegf "pqv'o qtg"v"j cp": "hgv"406"o +cr ctv"qp"egpvgtu

## Appendix C to Subpart M- Personal Fall Arrest Systems

### *Pqp/O cpf cvqt { 'I wlf gnlpgu' }* **for Complying With §1926.502(d)**

**Test methods for personal fall arrest systems and positioning device systems-(a) General** Vj ku"cr r gpflz"ugtngu"cu" c"pqp/o cpf cvqt { "i wlf gnlpgu"vq"cuukn"go r nq {gtu" eqo r nq {y kj "v"j g"tgs wktgo gpwu"kp"E3; 48024d+0Rctci tcr j u" d+ "e+ "f +cpf "g+qh" vj ku" Crr gpflz" "



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f guetldg"vguv"r tgegf wgu"y j lej "o c{"dg" wugf"vq" f gvgto kpg"eqo r nrcpeg" y kj "v g"tgs wktgo gpuw"lp"E3; 48024" \*#18-0Cu"pqvgf"lp"Cr r gpf lz "F"qh" vj ku'wdr ct'0Vj g"vguv'o gvj qf u'rkungf"j gt g"lp"Cr r gpf lz "E"ecp"cnq"dg" wugf" vj "cuukn"go r nq{gtu"eqo r nq"y kj "v g"tgs wktgo gpuw"lp"E3; 48024" \*g" #5+cpf" \*6+htq"r quklqplpi "f gxleg"u{ungo u0

\*d+ *General conditions for all tests in the Appendix to §1926.502(d).* \*3+ *Nhtnpgu.* "ncp{ctf u"cpf" f gegngtcvklp" f gxlegu"uj qwr" dg" cwcej gf"vq"cp" cpej qtcj g"cpf"eqppgevgf"vq"v g"dqf {/dgn"qt"dqf {"j ctpguu"lp"v g"uco g" o cpggt"cu"v g{ "y qwr"dg"y j gp" wugf"vq"r tqgevg"go r nq{ggu0

\*4+ Vj g" cpej qtcj g"uj qwr" dg"tki k". "cpf"uj qwr"pqv"j cxg" c" f ghgevkp" i tgcvg"v j cp"2026"lpej gu" \*3"o +y j gp" c"htqeg"qh"4.472"r qwpf u" \*32"n p" +ku" cr r nkgf 0

\*5+ Vj g"htgs wgep{ "t gur qpug"qh"v j g"htcf"o gcuwtkpi "lpwtwo gpcvklp"uj qwr" dg"722"J | 0

\*6+ Vj g"vguv"y gki j v" wugf"lp"v j g"utgpi vj "cpf"htqeg"vguu"uj qwr" dg" c"tki k"0 o gvr0e{rkpf tlecn"qt"vqtuq/uj cr gf"qdlgevy kj "c"i k vj "qh"5: "lpej gu"r nuw"qt" o lpwu"6"lpej gu" \*; 8"eo "r nuw"qt"o lpwu"32"eo -0

\*7+ Vj g"ncp{ctf "qt"nhtnpg" wugf"vq"etgcvg"v j g"htg"hcni" f kncepg"uj qwr" dg" uwr r nkgf"y kj "v g"u{ungo 0"qt"lp"ku"cduepeg."v j g"ngcu"grcuwle"ncp{ctf "qt" nhtnpg"cxckrdng"vq"dg" wugf"y kj "v g"u{ungo 0

\*8+ Vj g"vguv"y gki j v"ht" gcej "vguv"uj qwr" dg"j qkngf"vq"v j g"tgs wktgf"ngxgn"cpf"uj qwr" dg"s wlenm"t gngcugf"y kj qwn"j cxkpi "cp{ "cr r tgeckdng"o qvklp" lo r ctvgf"vq"ks0

\*9+ Vj g"u{ungo u"r gthqto cpeg"uj qwr" dg" gxcnvcgf"vknkpi "lpvq"ceeqvpv"v j g" tcpi g"qh"gpxlkqpo gpcnleqpf kskqpu"ht"y j lej "ks"ku"t guki pgf"vq"dg" wugf 0

\*: +Hqny kpi "v j g"vguv"v j g"u{ungo "pggef"pqv" dg ecr cdng"qh" hwt vj gt"qr gtcvklp0

\*e-*Strength test.* \*3+ F wtkpi "v j g"vguiki "qh"cnf"u{ungo u."c"vguv"y gki j v"qh" 522"r qwpf u"r nuw"qt"o lpwu"7"r qwpf u" \*357"ni "r nuw"qt"o lpwu"40"ni +uj qwr" dg" wugf 0"Ugg"r ctci tcr j " \*d+ #6+qh"v ku"ugevklp0"

\*4+ Vj g"vguv"eqpuku"qh" f tqr r kpi "v j g"vguv"y gki j v"ppeg0C"pgv"wpwugf"u{ungo "uj qwr" dg" wugf"ht" gcej "vguv0

\*5+ Hqt"ncp{ctf "u{ungo u0"v j g"ncp{ctf"ngpi vj "uj qwr" dg"8" hggv"r nuw"qt" o lpwu"4"lpej gu" \*30 5"o "r nuw"qt"o lpwu"7"eo +cu"o gcuwtf g"htqo "v j g"htzgf" cpej qtcj g"vq"v j g"cwcej o gpv"qp"v j g"dqf { "dgn"qt"dqf {"j ctpguu0

\*6+ Hqt"tqr g/i tcd/v{r g" f gegngtcvklp"u{ungo u0"v j g"ngpi vj "qh"v j g"nhtnpg"cdqvg"v j g" egpvtnpg"qh"v j g" i tcdldpi "o gej cpkuo "vq"v j g" nhtnpgau" cpej qtcj g"r qkp vuj qwr"lpqv"gzeggf"4" hggv" \*2083"o -0

\*7+ Hqt"ncp{ctf "u{ungo u0"ht"u{ungo u"y kj "f gegngtcvklp" f gxlegu"y j lej "f"q"pqv"cwqo cvecm{ "nko k"htgg"hcni" f kncepg"vq"4" hggv" \*2083"o nqt"nguu"cpf"ht"u{ungo u"y kj "f gegngtcvklp" f gxlegu"y j lej "j cxg" c"eqppgevkp" f kncepg"lp"gzeguu"qh"3"htqv" \*205"o n"o gcuwgf"dgw ggp"v j g"egpvtnpg"qh"v j g"nhtnpg"cpf"v j g"cwcej o gpv"r qkp v"vq"v j g"dqf {"dgn"qt"j ctpguu+ "v j g"vguv"y gki j v"uj qwr" dg"tki i gf"vq"htgg"hcni" c" f kncepg"qh"90"r hggv" \*405"o n"htqo "c"r qkp v"v j cvku"30" hggv" \*068"o n"cdqvg"v j g" cpej qtcj g"r qkp v"vq"ku"v cpi kpi "htcevkp" \*8" hggv" dgmuy "v j g" cpej qtcj g-0 Vj g"vguv"y gki j v"uj qwr" hcni"v kj qw"lpvgtgtgpeg"qduwvklp."qt"j kskpi "v j g"htqgt"qt"i tqwpf "f wtkpi "v j g"vguv0lp"uqo g"ecugu" c"pqp/grcuwle"y kg"ncp{ctf "qh"uvhtlekp v"ngpi vj "o c{"pggf"vq"dg"cf f gf"vq"v j g"u{ungo "htq"vguv"r wtr qugu+ "vq"etgcvg"v j g"pgeguuct { "htgg"hcni" f kncepg0

\*8+ Hqt" f gegngtcvklp" f gxleg"u{ungo u"y kj "lpvgi tcn"nhtnpgu"qt"ncp{ctf u"y j lej "cwqo cvecm{ "nko k"htgg"hcni" f kncepg"vq"4" hggv" \*2083"o nqt"nguu"v j g"vguv"y gki j vuj qwr" dg"tki i gf"vq"htgg"hcni" c" f kncepg"qh"6" hggv" \*3044"o -0

\*9+ Cp{ "y gki j v"y j lej "f gcej gu"htqo "v j g"dgn"qt"j ctpguu"j cu"hcngf"v j g"utgpi vj "vguv0

\*f +*Force test* \*3+ *General.* Vj g"vguv"eqpuku"qh" f tqr r kpi "v j g"tgr gevkg vguv"y gki j v"ppeg"cu"u gehtkf"lp"r ctci tcr j " \*f + #4+ #k"qt" \*f + #5+ #k"qh"v ku"ugevklp0C"pgv"wpwugf"u{ungo "uj qwr" dg" wugf"ht" gcej "vguv0

\*4+ *For lanyard systems.* \*k" C"vguv"y gki j v"qh"442"r qwpf u"r nuw"qt"o lpwu"5"r qwpf u" \*322"ni "r nuw"qt"o lpwu"308"ni +uj qwr" dg" wugf 0" \*Ugg"r ctci tcr j " \*d+ #6+qh"v ku"cr r gpf lz 0

## OSHA Standards for the Construction Industry

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\*k" Ncp{ctf "ngpi vj "uj qwr" dg"8" hggv"r nuw"qt"o lpwu"v q"lpej gu" \*30 5"o "r nuw"qt" o lpwu"7"eo +cu"o gcuwtf g"htqo "v j g"htzgf" cpej qtcj g"vq"v j g"cwcej o gpv"qp"v j g"dqf {"dgn"qt"dqf {"j ctpguu0

\*k" Vj g"vguv"y gki j v"uj qwr" hcni"htgg"htqo "v j g" cpej qtcj g"ngxgn"vq"ku"j cpi kpi "htcevkp" \*c"vqcn"qh"8" hggv" \*30 5"o n"htgg"hcni" f kncepg+ "v kj qw"lpvgtgtgpeg"qduwvklp."qt"j kskpi "v j g"htqgt"qt"i tqwpf "f wtkpi "v j g"vguv0

\*5+ *For all other systems.* \*k" C"vguv"y gki j v"qh"442"r qwpf u"r nuw"qt"o lpwu"5"r qwpf u" \*322"ni "r nuw"qt"o lpwu"308"ni +uj qwr" dg" wugf 0" \*Ugg"r ctci tcr j " \*d+ #6+qh"v ku"cr r gpf lz 0"

\*k" Vj g"htgg"hcni" f kncepg"vq"dg" wugf"lp"v j g"vguv"uj qwr" dg"v j g"o czko wo "hcni" f kncepg"r j {ulecm"r gto kvgf"d{ "v j g"u{ungo "f wtkpi "pqto cn" wug"eqpf kskqpu."wr"vq" c"o czko wo "htgg"hcni" f kncepg"ht"v j g"vguv"y gki j v"qh"8" hggv" \*0 5"o -0" gzegr"v cu" hqny u-

\*C+ Hqt" f gegngtcvklp"u{ungo u"y j lej "j cxg" c"eqppgevkp"nknf"qt"ncp{ctf 0"v j g"vguv"y gki j v"uj qwr" "htgg"hcni" c" f kncepg"gs wcn"vq"v j g"eqppgevkp" f kncepg" \*o gcuwgf"dgw ggp"v j g"egpvtnpg"qh"v j g"nhtnpg"cpf"v j g"cwcej o gpv"r qkp v"vq"v j g"dqf {"dgn"qt"j ctpguu0

\*D+ Hqt" f gegngtcvklp" f gxleg"u{ungo u"y kj "lpvgi tcn"nhtnpgu"qt"ncp{ctf u"y j lej "cwqo cvecm{ "nko k"htgg"hcni" f kncepg"vq"4" hggv" \*2083"o nqt"nguu"v j g"vguv"y gki j v"uj qwr" "htgg"hcni" c" f kncepg"gs wcn"vq"v j cv"r gto kvgf"d{ "v j g"u{ungo "lp"pqto cn" wug0" \*Hqt"gzco r ng0"vq"vguv" c"u{ungo "y kj "c"ught"gtcvkpi "nhtnpg"qt"ncp{ctf 0"v j g"vguv"y gki j v"uj qwr" dg"uwr r qtvgf"cpf"v j g"u{ungo "cnuy gf"vq"tgvcev"v j g"nhtnpg"qt"ncp{ctf "cu"ks"y qwr"lp"pqto cn" wug0Vj g"vguv"y gki j v"y qwr"v j gp"dg"t gngcugf"cpf"v j g"htqeg"cpf" f gegngtcvklp" f kncepg"o gcuwgf 0

\*6+ C"u{ungo "hcku"v j g"htqeg"vgu"kh"v g"tgeqtf gf"o czko wo "cttgunkpi "htqeg"gzeggf u" 3.482"r qwpf u" \*708"n p" +y j gp" wtkpi "c"dqf {"dgn0cpf kt"gzeggf u"4.742"r qwpf u" \*3304"n p" +y j gp" wtkpi "c"dqf {"j ctpguu0

\*7+ Vj g"o czko wo "ngupi cvklp"cpf" f gegngtcvklp" f kncepg"uj qwr" dg"tgeqtf gf" f wtkpi "v j g"htqeg"vguv0

\*g+ *Deceleration device tests*0 \*3+ *General.* Vj g" f gxleg"uj qwr" dg" gxcnvcgf"qt"vguvf"wpf gt"v j g"gpxlkqpo gpcnleqpf kskqpu."uwej"cu"tclp."leg."i tgcug."f kv"v{r g"qh"nhtnpg" gve0:"ht"v j lej "v j g" f gxleg"ku"t guki pgf 0

\*4+ *Rope-grab type deceleration devices.* \*k" F gxlegu"uj qwr" dg"o qxgf"qp" c"nhtnpg"30222"ko gu"qxgt"v j g"uco g"ngpi vj "qh"npg" c" f kncepg"qh"pqv"nguu"v j cp"nhtqv" \*520"eo + "cpf"v j g"o gej cpkuo "uj qwr"htenigcej"ko g0

\*k" Wpnguu"v j g" f gxleg"ku"r gto cpgpvu"o ctnng"vq"lpf kcvg"v j g"v{r g"u+qh"nhtnpg"y j lej "o wuv"dg" wugf."uxgtcnf"r gu" \*f khtgt gpf lco gvgtu"cpf" f khtgt gpv'o cvgtknu+ "qh"nhtnpgu"uj qwr" dg" wugf"vq"vguv"y g" f gxleg0

(3) *Other self-activating type deceleration devices.* Vj g"nknkpi "o gej cpkuo u"qh"qv gt"ught"cevkcvkpi /v{r g" f gegngtcvklp" f gxlegu" f guki pgf "ht"o qt g"v j cp"pgg"cttguv"uj qwr"htenigcej"qh"30222"ko gu"cu"v j g{ "y qwr"lp"pqto cnhtgxleg0" **K0** *Additional non-mandatory guidelines for personal fall arrest systems*0 Vj g" hqny kpi "lpqhto cvklp"eqpukwgu"cf f kskpcnf"i wkt gtpgu"ht" wug"lp"eqo r nq kpi "y kj"tgs wktgo gpuw"ht" c"r gtuqpcnhtcttguvu{ungo 0

\*c+ *Selection and use considerations.* \*3+ Vj g"nkp{ "qh"r gtuqpcn"hcni"cttguvu{ungo "uggevff"uj qwr"o cvej "v j g"r ctvewct"y qtni"ukwcvklp0cpf"cp{"r quikdng"htgg"hcni" f kncepg"uj qwr" dg"ngr v"vq" c"o lpko wo 0"Eqpukf gtcvklp"uj qwr" dg"i kxgp"vq"v j g"r ctvewct"y qtni"gpxlkqpo gpv0Hqt"gzco r ng."v j g"r tgupeg"qh"cekf u."f kv00 qkuwgt."qln"i tgcug."gve0"cpf"v j gkt"ghgevp"qp"v j g"u{ungo ."uj qwr" dg" gxcnvcgf 0J qv"qt"eqrf"gpxlkqpo gpuw"o c{"cnq"j cxg"cp"cf xgtug"ghgevp"qp"v j g"u{ungo 0Y k g"tqr g"uj qwr"pqv"dg" wugf"y j gt g"cp"grgectkcn"j c|ctf "ku"cpvlekv cvgf 0Cu"tgs wktgf"d{ "v j g"ucpf ct f."v j g"go r nq{gt"o wuv"r ncp"vq"j cxg"o gcpu"cxckrdng"vq"r tqo r vq"t guewgf"cp"go r nq{gg"uj qwr" c"hcni"qeevt."uikpeg"v j g"uwr gpf gf"go r nq{gg"o c{"pqv"dg"cdng"vq"tgcej" c"y qtni"ngxgn"lpf gr gpf gpvu0

\*4+ Y j gt g"ncp{ctf u."eqppgevtu."cpf" nhtnpgu"ctg"wdlgev"vq" f co ci g"d{ "y qtni"qr gtcvklpu"uwej"cu"y grf kpi."ej go kcnf"engcpkpi."cpf"ucpf drcuiki."v j g"eqo r qppgv"uj qwr" dg"r tqgevgf."qt"qv gt"ugewtkpi"u{ungo u"uj qwr" dg" wugf 0" Vj g"go r nq{gt"uj qwr"htnq{ "gxcnvcg"v j g"y qtni"eqpf kskqpu"cpf"gpxlkqpo gpv"lpemf kpi "ugeuqpcn"y gcv j gt"ej cpi gu+dghgt g"uggevki "v j g"cr r tqr tkvg"r gtuqpcnhtcttguevklp"u{ungo 0" Qpeg"lp" wug0v j g"u{ungo u"ghgevkxgpg"uj qwr" dg"o qpkqgtgf 0" K0"uqo g"ecugu" c"r tqi tco "htq"engctkpi"cpf"o clpvapepeg"qh"v j g"u{ungo "o c{"dg"pgeguuct{0

"  
"



## Fall Protection

\*d-*Testing considerations.* Dghqtg" r wtej culpi " qt" r wklpi " kp"q" wug" c" r gtupcni hcmi cttguv u'ungo . "cp" go r nq { gt"uj qwr " qdvclp" hqo " y'j g'uwr r rgt " kphqto cklp "cdqmw'y g'u'ungo "dcugf "qp"ku"r gthqto cpeg" f wklpi "ygunlpi "uq" yj cv'y" g" go r nq {gt" ecp" npqy "kh'y" j g'u'ungo "o gguv" yj ku' ucpf ctf 0' Vgunlpi " uij qwr "dg" f qpqg" wklpi " tgeqi plk gf "ygun' o gy qf u0' Vj ku' Crr gpf kz "eqpvcapu" yguv' o gy qf u' tgeqi plk gf " hqt" gxcnclvpi " yj g' r gthqto cpeg" qh' hcmi cttguv u'ungo u0' P qv' cmi u'ungo u' o c { " pggf " vq" dg" kpf kklf wcm" j yungf = " yj g' r gthqto cpeg" qh' uqo g" u'ungo u' o c { " dg" dcugf " qp" f cvc" cpf " ecnecwclvpu" f gkxgf " hqo "ygunlpi "qh'u0o kct u'ungo u0' r tqxklf gf " yj cv'gpqwi j " kphqto cklp" ku'cxclcdng" vq" f go qpntcv'uko kctklf "qh'hwpcvqp" cpf " f guli p0

\*e-*Component compatibility considerations.* K gcm' 0c' r gtupcni hcmi cttguv u'ungo "u' f guli pgf 0' yungf 0' c'p' f "uwr r rgt" cu'c' eqo r rgtv' u'ungo 0' qy xgt. "ku" ku' eqo o qp" r tcewleg" hqt" ncp { ctf u0' eqppgevtu0' rhtg" nrgu0' f gegrgtclvqp" f gxlgu0' daf { " dgnu" cpf " daf { " j" ctpguugv" vq" dg" kpvtej cpi gf " ukepg" uqo g" eqo r qpqpwy" y gct" qmw' dghqtg" qy gtu0' Vj g" go r nq {gt" c'p' " go r nq {gt" uij qwr " tcnk' g' yj cv'p'v'cm'eqo r qpqpvt' c'g' kpvtej cpi ccdng0' hqt' kpuvcepg. "c' ncp { ctf " uij qwr " pqv' dg" eqppgevgf " dgy ggp" c" daf { " dgnu" \*qt" j" ctpguu" cpf " c" f gegrgtclvqp" f gxlqg" qh' yj g' ugrh' t' gtcvklpi " v' r g" ukepg" yj ku' ecp" tguwn" kp" c' f kklqpni" hgg" hcmi" hqt" yj j' lej " yj g' u'ungo " y cu" pqv' f guli pgf 0' Cp { " uwdnkswklp" qt" ej cpi g" vq" c" r gtupcni hcmi cttguv u'ungo " uij qwr " dg" hwm" g' gxcnclvqf " qt" yungf " d { " c" eqo r g'gpv' r gtupv" vq" f gvgto kpg" yj cv'k'o gguv" yj g' ucpf ctf 0' dghqtg" yj g'o qf kltg" u'ungo " ku' r wlp' wug0

\*f-*Employee training considerations.* Vj qtwi j " go r nq {gg" tclvklpi " kp" yj g" ugrgevlqp" cpf " wug" qh' r gtupcni hcmi cttguv u'ungo u' ku' lo r gtcv'xg0' Go r nq { ggu" o wuv' dg" vclp' gf " kp" yj g' uchg" wug" qh' yj g' u'ungo 0' Vj ku' uij qwr " kpenw' g" yj g' hmqy lpi < " cr r rdecvqp" rko ku' < r tqr gt" cpej qtlpi " cpf " vq/ qh' v' g' plk vgu' < gunko cklp" qh' hgg" hcmi f kucpeg. " kpenw' lpi " f gvgto kpcvqp" qh' f gegrgtclvqp" f kucpeg. " cpf " qv' cni hcmi f kucpeg" vq" r t' g' xgpv' u' u' kklpi " c" nqy" gt' r' g' xgn' < o gy qf u' qh' wug = cpf " kpuv' gevlqp" cpf " u' nqci g' qh' yj g' u'ungo 0' Ect gguu' qt" lo r tqr gt" wug" qh' yj g' gs wkr o gpv' ecp" tguwn' kp" ugtlqmw' kplw { " qt" f gc' y 0' Go r nq {gtu" cpf " go r nq { ggu' uij qwr " dgeqo g' hco kkt' yj k' yj g' o cv'g' kcl' p' yj ku' Crr r gpf kz. " cu" y gmi' cu' o cpw' cewt' g' u' tgeqo o gp' f cklp u0' dghqtg" c" u'ungo " ku" wugf 0' Qh' w' r gto quv' lo r qtcvpeg" ku' yj g' t' g' f' vevqp" kp" u'ntgpi yj " ecwugf " d { " egtvclp" vqg" qh' u' uwej " cu" wklpi " npqvu" v' lpi " ctqwpf " uij ctr " gf i gu" gve0' " cpf " o czko wo " r gto kxgf " hgg" hcmi f kucpeg0' Cnu0' vq" dg" u'ntguv' " ctg" yj g' lo r qtcvpeg" qh' kpuv' gevlqp" r tklq' vq" wug0' yj g' rko kcvlqp" qh' yj g' gs wkr o gpv0' c'p' " vplk w' eqpf kklp u' cv' yj g' yj qtmksg" yj j' lej " o c { " dg" lo r qtcvplp' f gvgto kplpi " yj g' v' r g" qh' u'ungo " vq" wug0

\*g-*Instruction considerations.* Go r nq {gtu" uij qwr " qdvclp" eqo r t' g' g' p' k' xg" kpuv' vevlqp" hqo " yj g" uwr r rgt " cu" yj g" u'ungo u' r tqr gt" wug" cpf " cr r rdecvqp. " kpenw' lpi . " yj g' g' r' r rdecng' <

\*3-*Vj g' hqtg" o gcuwgf " f wklpi " yj g' uco r ng' hqtg" ygun' <*

\*4-*Vj g'o czko wo " gnuv' cklp" o gcuwgf " hqt" ncp { ctf u' f wklpi " yj g' hqtg" ygun' <*

\*5-*Vj g' f gegrgtclvqp" f kucpeg" o gcuwgf " hqt" f gegrgtclvqp" f gxlgu' f wklpi " yj g" hqtg" ygun' <*

\*6-*Ecvlqp" u'ncgo gpv' qp' etklcni vug' hco kcvlqp" <*

\*7-*Crr r rdecvqp" hco ku' <*

\*8-*Rtqr gt" j' qqn' w' 0' cpej qtlpi " cpf " vq/ qh' v' g' plk vgu. " kpenw' lpi " yj g' r tqr gt" f gg' tklpi " qt" qy gt" cwcej o gpv' r qlpv' vq" wug" qp" yj g' daf { " dgnu" cpf " j" ctpguu' hqt" hcmi cttguv' <*

\*9-*Rtqr gt" enko dlpi " g' g' plk vgu' <*

\* < 0' Gy qf u' qh' kpuv' gevlqp. " wug. " engcplpi . " cpf " u' nqci g = c' p' f "

\* < 4' U' g' ekltk " rhtg' kpgu" yj j' lej " o c { " dg" wugf 0' Vj ku' kphqto cklp" uij qwr " dg" r tqxklf gf " vq" go r nq { ggu' f wklpi " tclvklpi 0

\*h-*Rescue considerations.* Cu' tgs wklgf " d { " E3; 480' 24" f #42+ " yj gp" r gtupcni hcmi cttguv u'ungo u' ctg" wugf. " yj g" go r nq {gt" o wuv' cuwmg" yj cv' go r nq { ggu' ecp" dg" r tqo r vq' t' g' u' ewgf " qt" ecp' t' g' u' ewgf " yj go ugr' xgu' uij qwr " c' hcmi qeev0' Vj g' cxclcdklk { " qh' t' g' u' ewgf " r gtuppgn" ncf f gtu" qt" qy gt" t' g' u' ewgf " gs wkr o gpv' uij qwr " dg" gxcnclvqf 0' k' p' uqo g' u' kswc' k' p' u. " gs wkr o gpv' yj j' lej " cnuqy u' go r nq { ggu' vq' t' g' u' ewgf " yj go ugr' xgu' c' hgt' yj g' hcmi' cu' dggp' cttguv' f " o c { " dg" f g' u' k' c' dng0' uwej " cu' f' g' x' lgu' yj j' lej " j' cxg' f' g' u' g' p' v' ecr' c' dklk { 0

"  
"

\*i-*Inspection considerations.* Cu' tgs wklgf " d { " E3; 480' 24" f #43+ 0' r gtupcni hcmi cttguv u'ungo u' o wuv' dg' t' g' u' w' c' n' l' " kpuv' gevgf 0' Cp { " eqo r qpqp' v' yj k' yj " cp { " u' k' p' h' c' p' v' f g' h' g' v0' uwej " cu' ewa0' g' c' u' d' c' t' c' u' k' p' u0' o q' r' 0' q' t' v' p' f' v' g' u' t' g' e' j' k' p' i = c' n' g' t' c' v' k' p' u' q' t' c' f' f' k' k' p' u' yj j' lej " o k' j' v' c' h' g' e' v' k' u' g' h' h' e' l' g' e' { = f' c' o' c' i' g' f' v' g' " vq" f' g' v' g' t' k' t' c' v' k' p' = e' q' p' v' c' e' v' yj k' yj " h' g' g' c' e' k' u' " qt" qy gt" eqtt' q' u' k' s' g' u' = f' k' u' q' t' v' g' " j' q' q' m' " qt" h' c' m' w' " j' q' q' n' i' u' r' t' l' p' i' u' " v' q' p' i' v' g' u' v' p' h' k' w' g' f' " vq" yj g' uij qwr gt" qh' dwemgu. " nqqug" qt" f' c' o' c' i' g' f' " o' q' w' p' v' l' p' i' u' " p' q' p' / h' w' e' v' k' p' l' p' i' " r' c' t' u' " qt" yj g' t' c' l' p' i' " qt" k' p' v' t' p' c' n' i' f' g' v' g' t' k' t' c' v' k' p' " kp" yj g' t' q' r' g' u' o' wuv' dg" yj k' yj f' t' c' y' p" hqo " ugt' x' l' g' " lo o g' f' k' v' e' n' l' . " cpf " uij qwr " dg" v' c' i' g' f' " qt" o' c' t' n' g' f' " cu' v' w' u' c' d' n' g' " qt" f' g' u' n' q' { g' f 0

\*j-*Tie-off considerations.* \*3-*Qpg' qh' yj g' o quv' lo r qtcvpl' cur gewi' qh' r gtupcni hcmi r tqv' e' v' l' p' u'ungo u' ku' hwm" r ncpplpi " yj g' u'ungo " before ku' ku' r wlp' vq" wug0' Rtqdcnq" yj g' o quv' q' x' g' t' n' q' n' g' f' " eqo r qpqp' v' ku' r ncpplpi " hqt" u' u' k' s' c' d' n' g' " c' p' e' j' q' t' c' i' g' r' q' l' p' u' 0' Uwej " r ncpplpi " uij qwr " k' f' g' c' m' i' " dg" f' qp' g' d' g' h' q' t' g' yj g' u' t' v' e' w' e' t' g' q' t' d' w' k' f' l' p' i' " ku' equp' u' v' e' v' g' f' " uq" yj cv' c' p' e' j' q' t' c' i' g' r' q' l' p' u' " e' c' p' " dg" k' p' e' q' t' r' q' t' c' v' e' g' f' " f' w' k' l' p' i' " equp' u' v' e' v' l' p' u' " hqt" wug" n' c' v' g' " hqt" yj k' p' f' qy " engcplpi " qt" qy gt" dwk' f' l' p' i' " o c' l' p' g' c' p' e' g' 0' k' i' r' t' q' r' g' t' n' l' " r ncpplf. " yj g' u' g' c' p' e' j' q' t' c' i' g' r' q' l' p' u' o c { " dg" wugf " f wklpi " equp' u' v' e' v' l' p' u' . " cu' y' g' m' i' c' u' c' h' g' y' c' t' f' u' 0*

\*k-*Rtqr gtn' " r ncpplf " cpej qtlpi gu' uij qwr " dg" wugf " kh' yj g' { " ctg" cxclcdng0' k' p' uqo g" ecugu. " cpej qtlpi gu' o wuv' dg" kpuv' n' g' " lo o g' f' k' v' e' n' l' " r t' k' q' t' " vq" wug0' k' p' uwej " ecugu. " c" t' g' i' k' u' g' t' g' f' " r t' q' h' g' u' k' p' c' n' i' g' p' i' k' p' e' g' t' " yj k' yj " g' z' r' g' t' k' e' p' e' g' " kp" f' g' u' k' i' p' l' p' i' " hcmi r tqv' e' v' l' p' u' u'ungo u. " qt" cpqy gt" s' w' c' h' i' k' l' g' f' " r' g' t' u' q' p' " yj k' yj " cr r tqr t' k' e' v' g' f' v' e' c' v' l' p' u' " cpf " g' z' r' g' t' k' e' p' e' g' " uij qwr " f' g' u' k' i' p' c' p' c' p' e' j' q' t' r' q' l' p' v' vq" dg' kpuv' n' g' f 0*

\*k-*k' p' u' qy gt" ecugu0' yj g' C' i' g' p' e' { " t' g' e' q' i' p' k' g' u' yj cv' yj g' t' g' yj k' m' i' d' g' " c' p' g' g' f' " vq" f' g' x' l' g' " cp" cpej qt" r' q' l' p' v' hqo " g' z' k' u' k' p' i' " u' t' v' e' w' e' t' g' u' 0' G' z' c' o' r' n' g' u' q' h' yj j' cv' o' k' i' j' v' d' g' " c' r' r' t' q' r' t' k' e' v' g' cpej qt' r' q' l' p' u' c' t' g' u' n' g' i' o' g' d' g' t' u' q' t' " K' d' g' c' o' u' h' i' c' p' " c' e' e' g' r' w' d' n' g' u' t' c' r' " ku' cxclcdng" hqt" yj g' eqppgevlqp" f' q' p' q' v' wug' c' n' p' { ctf " yj k' yj " c' u' p' c' r' j' q' q' n' i' e' n' t' r' r' g' f' " q' p' v' q' k' u' g' h' i' = r' c' t' i' g' " g' l' g' d' q' n' u' o' c' f' g' q' h' i' c' p' " c' r' r' t' q' r' t' k' e' v' g' i' t' c' f' g' u' n' g' n' i' w' c' t' f' t' c' k' u' " qt" t' c' l' k' p' i' u' h' i' yj g' { " j' c' x' g' " d' g' g' p' " f' g' u' k' i' p' g' f' " hqt" wug" cu' cp" cpej qt" r' q' l' p' v' = qt" o' cu' q' t' { " qt" yj q' q' f' " o' g' d' g' t' u' q' p' n' i' " k' i' yj g' c' w' c' e' j' o' g' p' v' r' q' l' p' v' ku' u' d' u' c' p' v' c' n' i' c' p' f' r' t' g' e' c' w' k' p' u' j' c' x' g' d' g' g' p' " c' n' g' p' " vq" c' u' u' w' g' yj cv' d' q' n' u' q' t' " qy gt" eqppgevtu' yj k' m' i' p' q' v' r' w' n' i' yj t' q' w' i' j' 0' C' s' w' c' h' i' k' l' g' f' " r' g' t' u' q' p' uij qwr " dg" wugf " vq" g' x' c' n' c' l' v' g' yj g' u' u' k' s' c' d' n' g' q' h' yj g' u' g' " o' c' n' g' u' i' j' k' n' o' " cpej qtlpi gu' yj k' yj " c' h' e' w' u' q' p' r' t' q' r' g' t' " u' t' g' o' i' j' 0*

\*4-*Go r nq {gtu" cpf " go r nq { ggu' uij qwr " cv' cmi' ko gu' dg' cy ctg" yj cv' yj g' u'ntgpi yj " qh' c" r gtupcni hcmi cttguv u'ungo " ku' dcugf " qp" ku' d' g' l' p' i' " cwcej gf " vq" cp" cpej qtlpi " u'ungo " yj j' lej " f' g' u' p' q' v' t' g' f' w' e' g' yj g' u'ntgpi yj " qh' yj g' u'ungo " uwej " cu' c' r' r' t' q' r' g' t' n' l' " lo g' p' u' k' p' g' f' " g' l' g' d' q' n' u' " u' p' c' r' j' q' q' n' i' c' p' e' j' q' t' c' i' g' o' Vj g' t' g' h' q' t' g' . " k' i' c' " o' g' c' p' u' q' h' c' w' c' e' j' o' g' p' v' ku' wugf " yj cv' yj k' m' i' t' g' f' w' e' g' yj g' u'ntgpi yj " qh' yj g' u'ungo . " yj cv' eqo r qpqp' v' uij qwr " dg" t' g' r' n' e' g' f' " d { " c" u'ntqpi gt" qp' g' . " dw' w' p' g' yj cv' yj k' m' i' c' n' u' j' o' c' l' p' v' l' p' yj g' c' r' r' t' q' r' t' k' e' v' g' o' czko wo " cttguv' hqtg" ej c' t' c' e' v' t' k' u' e' u' 0*

\*5-*Vqg/ qh' wklpi " c" npqv' kp" c' t' q' r' g' n' c' p' { ctf " qt" rhtg' k' p' g' " cv' c' p' { " n' e' c' / v' k' p' + e' c' p' " t' g' f' w' e' g' " yj g' rhtg' k' p' g' " n' c' p' { ctf " u'ntgpi yj " d { " 72" r' g' t' e' g' p' v' qt" o' q' t' g' 0' Vj g' t' g' h' q' t' g' . " c" u'ntqpi gt" n' c' p' { ctf " qt" rhtg' k' p' g' uij qwr " dg" wugf " vq" eqo r g' p' u' c' v' g' hqt" yj g' yj g' c' m' p' l' p' i' " g' h' i' g' e' v' qh' yj g' " npqv' " qt" yj g' n' c' p' { ctf " n' e' p' i' yj " uij qwr " dg" t' g' f' w' e' g' f' " qt" yj g' vqg/ qh' i' n' e' c' v' l' p' u' t' c' l' u' g' f' + vq" o' k' p' lo k' g' h' g' g' hcmi f kucpeg. " qt" yj g' n' c' p' { ctf " qt" rhtg' k' p' g' uij qwr " dg" t' g' r' n' e' g' f' " d { " qp' g' " yj j' lej " j' cu' cp" c' r' r' t' q' r' t' k' e' v' n' l' " k' p' e' q' t' r' q' t' c' v' e' g' f' " eqppgevtu' vq" g' n' i' o' k' p' c' v' g' yj g' p' g' g' f' " hqt" c" npqv0*

\*6-*Vqg/ qh' i' qh' c' t' q' r' g' n' c' p' { ctf " qt" rhtg' k' p' g' " c' t' q' w' p' f' " cp" d' l' " o' q' t' " d' k' " d' g' c' o' " qt" u' k' o' k' c' t' " u' w' r' q' t' v' e' c' p' t' g' f' w' e' g' ku' u'ntgpi yj " cu' o' w' e' j' " cu' 92" r' g' t' e' g' p' v' f' w' e' g' vq" yj g' e' w' w' k' p' i' " c' e' v' k' p' qh' i' yj g' d' g' c' o' " g' f' i' g' u' 0' Vj g' t' g' h' q' t' g' . " wug" uij qwr " dg" o' c' f' g' q' h' i' c' yj g' d' d' l' p' i' " n' c' p' { ctf " qt" yj k' g' e' q' t' g' " rhtg' k' p' g' " c' t' q' w' p' f' " yj g' d' g' c' o' < qt" yj g' n' c' p' { ctf " qt" rhtg' k' p' g' uij qwr " dg" r' t' q' v' e' g' f' " hqo " yj g' " g' f' i' g' = qt" h' g' g' hcmi f kucpeg uij qwr " dg" i' t' g' c' v' l' o' k' p' lo k' g' f 0*

\*7-*Vqg/ qh' i' yj g' t' g' yj g' k' p' g' r' cuwgu' q' x' g' " qt" c' t' q' w' p' f' " t' q' w' i' j' " qt" uij c' t' r' " u' w' t' h' c' e' g' u' t' g' f' w' e' g' u' u'ntgpi yj " f' t' c' u' k' e' c' n' i' 0' Uwej " c" vqg/ qh' i' uij qwr " dg" c' x' q' k' f' g' f' " qt" cp" c' n' g' t' p' c' v' k' s' g' vqg/ qh' i' t' k' i' i' l' p' i' " uij qwr " dg" wugf 0' Uwej " c' n' g' t' p' c' v' k' s' g' u' o' c { " k' p' e' n' w' f' g' wug' qh' i' c' u' p' c' r' j' q' q' m' i' g' g' t' k' p' i' " eqppgevlqp. " yj k' g' t' q' r' g' vqg/ qh' i' c' p' g' h' i' g' e' v' k' s' g' r' c' f' f' k' p' i' " qh' i' yj g' u' w' t' h' c' e' g' u' " qt" cp' c' d' i' c' u' k' p' / t' g' u' k' n' c' p' e' g' u' t' c' r' c' t' q' w' p' f' " qt" q' x' g' yj g' r' t' q' d' n' g' o' " u' w' t' h' c' e' g' 0*

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\*8+J qtk qpvcnrihtēnpgu'o c {Of gr gpf kpi 'qp'v'j gk' i ggo gw { 'cpf 'cpi' ng'hi'uci .  
 dg'wldlgevg' "q" i tgcvt 'nqcf u'j cp'v'j g'ko r ccv'nqcf 'ko r qugf' d' { 'cp'cwcej gf'  
 eqo r qpwpv'0 Y j gpi'j 'cp' cpi' ng' qh' j qtk qpvcnrihtēnpog' uci 'ku' nguu' v' cp' 52'  
 f' g' tggv'0 d' ko r ccv'hteg'lo rctvg' q'j g' h'tēg' 'hpg' d' { 'cp'cwcej gf' h'cp {ctf' kpi'  
 i tgcvt' 'co r nhtēf'0 Hqt' g'zco r ng' 'y kj' 'c' uci 'cpi' ng' qh' 37f g' tggv' 'j g' h'tēg'  
 co r nhtēk'v'p' ku'cdqw'4-3' cpi' cv'7'f g' i tggv'uci 0k'ku'cdqw'8-30'F gr gpf kpi'  
 qp'v'j g' cpi' ng' qh'uci . 'cpf 'j g' h'tēp'p' g'w'ek'k' . 'j g' utngpi'j 'j qh'v'j g'j qtk qpvcnrihtēnpog'  
 'cpi' ng' 'j g' cpej qtki gu'v'q'v'j j' kē' k'ku'cwcej gf' 'uj qwf' d' dg' 'lpetgucgf' 'c' p'w  
 dgt' qh'v'lo gu'xqgt' 'j cv'qh'v'j g' h'cp {ctf' 0G'z'v' g' g'ect'g'uj qwf' d' dg' 'cwng' 'lp'  
 eqpuf' g'kpi' 'c'j qtk qpvcnrihtēnpog' hqt' o' wnk' ng' 'wē' qh'v'0 Vj g' t'gcuap' hqt' 'j ku' ku'  
 'j cv'lp' o' wnk' ng' 'dg' qh'v' 'c'j qtk qpvcnrihtēnpog' 0k' h'p'g' go r nq { gg' h'm'0 'j g'  
 o' qxgo qpwp'v'q'j 'j g' h'tēp'ki' go r nq { gg' cpi' 'j g'j qtk qpvcnrihtēnpog' f' wtkpi' 'cttgu'  
 'j g' h'm'0 c' 'ccwug' q'j g' go r nq { gg' q'j h'm'c'v'0 Qtk qpvcnrihtēnpog' cpi' 'p'  
 cpej qtki' g' utngpi'j 'j 'uj qwf' dg' 'lpetgucgf' hqt' g'cej' 'cf f' k'k'p'c'v' go r nq { gg' q' dg'  
 'wē' qh'v'0 Hqt' v'j g'ug' cpi' q'j g' t'gcuap' 'j g' g' g'uk' p' h'q'v'0 ugo u'w'kpi' 'j qtk qpvcnrihtēnpog'  
 o' wun' q'p' d' g' f' qpg' d' { 's' w'ck'ēf' r' g'tuup'0 Vgunk' 'q' h' 'lp'w'c'ng'f'  
 h'tēnpog' cpi' 'cpej qtki' t'q' t'q' k' 'wē' ku' t'g'eo o' g'p' gf' 0

\*9+Vj g' utɔpɪ j' qh' cp' g[ g/ɔn/ku'tɕɛg' nɪpɪ j' j' g' czku'qh'j' g' dɔn/ɕp' ku' utɔpɪ j' ku' t' gɔn' t' g' wɛg' h'j' g' h'ɪtɛg' ku' cr' nɛg' c'vɕp' c'pɪ nɛ' ku' j' ku' czku' \*10+Vj g' f' k' tɛgɔp' qh' uj' gct-ɔ Cnɔf' ect' uj' qwɛ' dg' g' z' tɛgɔp' lp' u' nɛgɔpɪ j' j' g' r' tqr' g' f' k'co gɛt' qh'j' g' g' g' g' c'xqɔp' c'ɛɛk' gɔnɪf' kuɔpɪ ci' go gɔp' qh' utɔpɪ j' qɔnɪf' gɔk' pɛg' q' dg' tɛgo' r' cɔkɪn' h'ut' j' g' tɛgɔpɛg' kɔpɪ

\* +F wəʔvəʔ ʔi ɡʰli pʰlɛcɪpʰtʃ wɛkʌp ʰp ʔi ɡʷtɪp ʔi ʔhʲi ʔi ʔhɛnɔp ʔɪɪp (ctf ʰp ʔɪ uqo ɡʷcɛuŋ/cuʔ o wɛj ʔ cuʔ ɡʷ2ʔ r ɡtɛp ʔ tʃ wɛkʌp + ʔi ʔ uʔ ʰp ʔi ʔ kɛj ʔ npqʷ ʰt wʌkɪn ʔi ʔ wɪf ʔ pɪʋ dʒ ʔ wɛf ʔ hɪ ʔ hɛnɔp ʔɪɪp (ctf ʔ epppɛwɪpʷ ɛzɛv ʰp ʔi ʔ ɡtɪ ɡpɛ ʔ ʔwʌkwɪpʷ ʔi ʔ ɡtɪ pɪʋ ʔi ʔ tʃ ɛxkɛd ʔɪɪp (uqo ʔ uʔ tɛwɛɪv ʔi ʔ ɡpɪp/cpɪ ʔ pɪʋ ʔ uʔ ʰp ʔi ʔ kɛj ʔ npqʷ ʔi ʔ wɪf ʔ pɪʋ ʔ dʒ ʔ wɛf ʔ dʒ wɛg ʔ kʰ ʔ uʔ wɪt ɡɪdɪ ʔi ʔ uqɪ r ʰp ʔi ʔ c ʔ hɛnʋʲ ʔi ʔ ʔi ʔ pɪʋ ʔi ʔ q ʔi ʔ tʃ ʔ tʃ ʔ ɡpɪ ʔi ʔ tʃ ʔ npqʷ ʰt ʔ tʃ ɛdɪdɪ ʔ o c ʔ dʒ ʔ wɛf ʔ ʰp ʔi ʔ ɡtɪ ɡpɛ ʔ ʔwʌkwɪpʷ ʔi ʔ ʔ ɛxɛt ʔ eɛt ʔi ʔ wɪf ʔ dʒ ʔ cɪnɔp ʔi ʔ ʔo ʰk ʔi ʔ hɛɔ ʔ hɛm ʔi ʔ kɪɪpɛ ʔi ʔ q ʔ c ʔ o ʔ ʔo ʔo ʔo ʔ dʒɛwɛ ʔ hɪ ʔ tʃ wɛf ʔ hɛnɔp ʔɪɪp (ctf ʔ uɪtɪp ʔi ʔ)

\**Vertical lifeline considerations.* Cu' tsgv<sup>W</sup>gf' d[ 'j' g' ucnpf ctf. "gee] 'go r nq[ 'ggu' vnu' j' cxg' c' ugr ctcg' r<sup>h</sup>h<sup>h</sup>np<sup>g</sup> ]'gzgr v' go r nq[ 'ggu' gpi ci gf' kp' eqpntwepki' g<sup>g</sup>excwit' i'j' chu' y' j' q' c'tg' r' gto kv<sup>g</sup> f' q' j' g' c'g' x' y' t' go r nq[ 'gg' h'p' q'p<sup>g</sup> ]'r<sup>h</sup>h<sup>h</sup>np<sup>g</sup> w' j' j' p' j' g' r<sup>h</sup>h<sup>h</sup>np<sup>g</sup> k' x' g' v' c'w' d' f' j' t' g' c'g' u' p' t' y' j' k' i' k' u' j' v' c'v' k' p' ]' o' wnk' r' e' v' g' q' l' i' t' u' q' c' u' k' i' p' r' e' r<sup>h</sup>h<sup>h</sup>np<sup>g</sup> 0' h' p' p' g' go r nq[ 'gg' h' m' u' j' g' q' o' q' o' g' p' v' q' h' j' g' r<sup>h</sup>h<sup>h</sup>np<sup>g</sup> f' w' l' p' i' j' g' c' t' t' g' u' n' q' h' j' g' h' m' i' o' c' f' r' w' n' i' q' y' g' t' go r nq[ 'gg' u' n' p' c' t' f' u' ]' ecwuk' j' i' g' q' o' h' m' i' c' u' v' g' n' f' ]

\*4+Snap-hook' considerations. \*3+Cnj qwi j "pqv'tgs wkt g" d'["j ku'ucpf ct' h' h' q' cml'eqppge'wqu'w'p'k'lp'wct'["3.3;:: "m'eni' "up'c' j qm'u' f' gu'k' p'g' "h' t' eqppge'wqu' "q' "wkskd' qdl'w' "q'h' w'f'f'k'epv' ut'g' p' j' c' "j k' j n' q' t' g'eo' o' g'p' f' "k' n'g'w' q'h' "j' g' p'p' m'p'ni' "v'r'g'g' N'epm'j' "up'c' j' qm'u' l'p'eqtr' q'tc'g' "c' r' qu'k's'g' m'eni' "o' g'ej' c'p'ku' "l'p' c'f' f' k'k'p' "q' "j' g' u' r' t' k'p' "h'q'f' g'f' "n'g'r' g't' o' j' j'ej' "j' k'n' p'k'u' c'm'y' "j' g' n'g'r' g't' "q' "q'r' g'p' "w'p'f' g' "o' q'f' g't'c'w' r' t' g'u'w'g' "j' k'j' q'u'w' u'o' g'q'p' "h'q'u' t' g'ng'c'p'k' "j' g' "j' o' g'ej' c'p'ku' o' U'w'ej' "c' "h'g'w'g' t' r' q'r' g't'n' "f' g' u'k' p'g' O'f'f'g'w'k'g' t' t' g'x'p'g' t'q'm' q'w' t'q'o' "g'ee'w' t'k'p' t' o'

\*4-ŋ'Cu'tgs wkt g' d' Èn 48Ů24ŋ' #8-ŋ' y g' hmqm y kpi "eqppgekwpu"o wu' dg' cxaqkf g' "wpru" r'tqr gtn' f' guki pfg' nqenki" upcr j qqm' ctg' wuef-ŋ' dgecwuef' yj g' ctg' eqpf kwkpu' y j lej' ecp' tguwn' kp' tqm' qw' y j gp' c' pqp/nqenki" upcr j qqmiku' wuef' 2

\*k'F k gev'eqppgevkp"qh'c"upcr j qqm'v'c"] qtk qpvcn'khgkpgO'

\*k+Vy q"\*qt"o qtg+"upcr j aqmu"eqppgevgf "vq"qpg"f gg/tkpi O'

\*kk+"Vy q"upcr j qqmu"eqppgevgf "vq"gcej "qvj gt0

\*kx+C"upcr j qqm'eqppgevgf "dcem'qp'ku'kpgi tcn'ncp {ctf 0}

```
*x+C upcr j qqm!eqpppgewf "q" c"y gddkpi "nqr "qt"y gddkpi "np{ctf0'
```

\*xkɪ'kɔ r tqr g't'f kɔ gpukɔpu'qh'i'y g'f gg/tkpi 0tgdct0qɪ'qjy g't'eqppgɛvɔp'r qkɔp'  
kɔ'tgrɛvɔp'v'q'y g'upcr j qqnɪ'f kɔ gpukɔpu'y j lej 'y qwɪf'cmɔy 'y g'upcr j qqnɪ'  
nɛgr g't'v'dg'f gr tɛuɛf'd'f'c'wɪtkpi 'b qvɔp'qh'i'y g'upcr j qqnɪ'

"m"*Freefall considerations.* Vj g'go r nq|gt'cpf'g r nq|gg'uj qwrf'čvčm'w'lo gu' dg' cy ct'g'č'j vč'c'č'ul'ungo'lu o c'zko wo "cttgunp" h'qteq'h'li g'xcm'vč'g' w'pf'gt' p'qto cr'it w'ug' h'pf' k'akp'u' gunc'dk'ij g'f'd' i'j o c'p'w'ic'w'ew'gt'." c'pf' "k'p' p'q'č'ug' w'p'ki' c'h'gg' h'cm'f' knuc'ep'k'p' g'z'eg'u'q'h'8'h'egv'30' lo -0C'h'eg' g'z'w'c'h'egv'q'h'f'eg' h'm'č'ep'k'ik' p'h'k'ic'ep'w' i'p'et'g'ug'č'j g'c'tt'gunp' i'qteq'qp'č'j g'g'o r nq|gg'o'f' quak'd' "

## OSHA Standards for the Construction Industry

vq' yj' g' r qłp'v'qh'ecwupi' l'płw' {0Dgēcwag'qh'y' ku' yj' g' h'gg' h'cm'f' kncpeg' u'j' qw'f' dg'  
 ngr'v'c'v'c' o' p'lo wo' . c'p'f' . cu' t'gs w'k'g' {d' yj' g' u'ncp' c'tf' . l'p' p'q' ecug' y' t'g'c'g' yj' cp' 8'  
 h'gg'v' 30' 0' + v'q' yj' gr' cuum'g' yj' ku' yj' g' v'k'g' q'ht' c'w'ce' o' g'p'v' r qłp'v' q' yj' g' h'k'nt'p' q'v'  
 c'p'ej' q' yj' q'w'f' t'g' m'ec'g'v' c'v' q' t' c'x'g' yj' c'w'p'g' e'k'p' r qłp'v' q' yj' g' h'k'nt'p' c't'f'  
 gs w'k' o' g'p'v' q' d'gn'v' q' t' yj' c'tp'g'u' 0' U'p'eg' q'v' g' y' k'g' c'f' k'k'p'c'f' h'gg' h'cm'f' kncpeg' ku'  
 c'f' f' g' v'q' yj' g' r'g'p' yj' q' h' yj' g' e'q'p'p'g' e'k'p' i' o' g' c'p'u' 30' 0' r'c'p' {c'tf' + 0' C'w'ce'j' k'p' i' v'q' yj' g'  
 y' q'nt'p' i' u'w'k'c'g' y' k'nt'q' h'g'p' t' g'u'w' l' c'p' c' h'gg' h'cm'f' t'g'c'g' yj' cp' 8' h'gg'v' 30' 0' 4' H'q' t'  
 k'p'nc'p'g' . h'k' c' 8' h'q'q' i' 30' 0' + r'c'p' {c'tf' ku' w'g'f' 0' yj' g' v'c'g' h'gg' h'cm'f' kncpeg' y' k'nt' d'g'  
 yj' g' f' k'nc'p'g' h'q' o' v' yj' g' y' q'nt'p' i' n'x'g' n' q' yj' g' d'q'f' { 'd'gn' v'q' t' c'tp'g'u' h'c'w'ce'j' o' g'p'v'  
 r qłp'v' n'w' yj' g' 8' h'gg'v' 30' 0' 4' h'k'nt'p' {c'tf' h'g'p' yj' 0' C'p'q' yj' g' t' i' o' r' q'c'v'p'v' e'q'p'k' g' t' c'v'k'p'  
 ku' yj' c'v' yj' g' c'tt'g' u'k'p' i' h'q'eg' yj' j' k'ej' yj' g' h'cm' u' u'go' 0' w'w'v' y' k'aj' u'nc'p' i' cu'q' i' q'qu' w'  
 y' k'j' i' t' t'g'c'v' f' k'nc'p'g' q'ht' h'gg' h'cm' r' q'au'k' d' n' g' z'g'eg'f' k'p' i' yj' g' u'w'p'g' yj' q' h' yj' g'  
 u' u'go' 0'

"*InElongation and deceleration distance* eqpukf gtcvqpu0Qj yj g'thcevtu0lpxqnxgf "k" c' r' tqr gf "lg/ qh' c'tg' gupri cvlqp' c'p' f' gegngt'cvlqp' f' kncepg0 F' wlpki "v' j' g' c'ttgulpi "q' j' c' hcn0 c' n' ncp' c'tf' "v' knl' g'z'gt'lpseg' c' n' npi' v' j' qh' u'twgej lpi "qt' gupri cvlqp' "y' h' c'tg'cevk'cvlqp' qh' c' f' gegngt'cvlqp' f' g'xleg' v' knl' t'wunw' l'p' c'egt'cvlqp' u'wqr' r' lpi "f' kncepg0 Vj g'ug' f' kncepgu' u'j' q'wrf "dg' c'xck'cdng' v' ksj' "v' j' g' n'p' c'tf' "qt' f' g'xlegu' l'p'ut'wv'ku'p' c'p' f' w' w'nd' dg' c'tf' f' g' "h' g' g' h' c'f' hcn' f' kncepg' q' c'tt'lg' c'v'v' g' v' q'v'cn' hcn' f' kncepg' d'gh'gt' c'p' go r' n' q' g' g' l'p' h'w'w' u'wqr' r' gf' 0Vj' g' c'f' f' k'klcp' r' q'wqr' r' lpi "f' kncepg' o' c' l' dg' x'gt' "i' u'v' p' h'cepv' h' v' j' g' n'p' c'tf' "qt' f' gegngt'cvlqp' f' g'xleg' k'p' c'wcej' gf' p'gct' q't' c'v'v' g' g'p'f' qh' c' n'p' i' n' h' n'p' g' 0y' j' lej' "o' c' l' k'ug' h' c'f' f' 'equpuk' g'tcdng' f' kncepg' f' w'g' v' q' k'ul' q' p' g'upri cvlqp0 C' u' t'g' w'v' g' d' l' "v' j' g' n'c'p' c'tf' "v' u'v' h' l'ep' v' f' kncepg' q' c'muy' l'ut' c'm' qh' v' g'ug' h'cevtu' o' w' w' c'nu'q' d'g' o' c' p'cl'p'cv' g' d'g'v' g'g' v' j' g' go r' n' q' g' g' c'p' f' q'd'ut'wv'ku'p' d'ug'ny' "v' q' t' t'g'x'g'p'v'c' l'p'w' f' t' w'g' v' q' w' r' c'ev' d'gh'gt' v' j' g' u' l' u'ng' o' h'w'w' l' c'tt'g'w' u' j' g' hcn0 f' c' f' k'klcp' "c' o' l'p' o' w' o' qh' 34' h'g'g' v' 50' o' + qh' i' n' h' n'p' g' u'j' q'wrf "dg' c'muy' g'f' d'g'ny' "v' j' g' u'g'w'kl'p' "r' q'lp'v' qh' c' n'p' t'q' r' i' t'cd' v' r' l'p' g' f' gegngt'cvlqp' f' g'xleg' 0' c'p' v' j' g' n'p' "g'to' l'p'c'v' g' u' t'g'x'g'p'v' c' f' g'xleg' i' t'g'w' o' u'w'k' l'p' i' g' qh' v' j' g' i' n' h' n'p' g' 0' c'ng' t'p'c'v' k'g' n' "v' j' g' i' n' h' n'p' g' u'j' q'wrf' g'z' v' g'p' f' v' q' v' j' g' i' t'q'w'p' q' t' v' j' g' p'g'z' v' y' q' t'p'ki' t'g'x'g'p'v' o' 0Vj' g' g' c'w' u' g' w' c' t'g' u'w' i' g' u'g'f' v' q' t' t'g'x'g'p'v' g' y' q' t'w'g' i' h' t'q' o' l'p'c'f' x'g't'g'v'w' u' d' q'x'p' i' t' c' u' v' j' g' g'p'f' qh' v' j' g' i' n' h' n'p' g' c'p' f' j' c'x'lp' i' v' j' g' t'q' r' g' i' t'cd' d'g'eo' q' t' l'g'up' i' c' g' i' t'q' o' v' j' g' i' n' h' n'p' g' 0

\*o-# *Obstruction considerations.* Vj g' mɛcɛkɔp' qh' vj g' ɬɛg/qh' vj qwɪf' cnuq' eqpukɪ g' vj jɛj' c| ctf' qh'dɛntwɛkɔpɔp' vj g' r' qɛpɛvɛɪhɛm' cɔj' qh' vj g' go r m| gɔg' Vɬɛg/qh'v' vj g' o' kɔpɔ k' vj g' quidkɪkɬɛg' qh' g'zɛi' c| g'cɛg' 'vɪ pi kɪ pi' vj qwɪf' dg' eqpukɪ g'gɛf 0p' c'f f kɔpɔ. 'y j g'p' c' dɛf' { 'dɛn'kɪr'vɔf 0j g' go r m| gɔg' dɛf' { 'y kɪn' q' vj tqɔv' { 'c'j' q'k qɛvɛɪh' quɛkɔp' q' c' lɛm' mɪp' kɪ g' r' quɛkɔp' f' vɪ kɪ pi' 'vj g' c'ttɔg'v' qh' c'm' hɛm' 0' Vɬ wɔ' q'dɛntwɛkɔp' vj jɛj' o' k' i' v' kɔpɛtɛg' y' kɔj' 'vj kɪ o' k' v' q'wɪf' dg' cɔxɛf g'f' q' c' lɛg'x' g' q' lɔp' v' l' ɛ'q'w' ɬɛw' 0'.

\*p+*Other considerations*0Dgēcwēg'qh'ij g'f guki p'qh'uqo g'r gtuqpcn'hcm'ttgun' u'f uqo u' c'f k'k'qpcn' equpk' gtcvqpu' o c' d' g's' wkg'f' hqt' r' rqr' g' x'g' qh'0 Hqt' g'zco r'wēg' j' g'cx' c' f' g'egng'cvkqp' f' x'legu' qh'ij' g' ugn'h'gt'v'c'p' n' v'r'g'ij' qwf' d'g' ugw'g' qxgt'g' g'c'p' q'tf' g'c'q'cxqk' y'ij' y' g'k'ij' y'g'f' g'x'leg' j'cxk'ij' q'q'd'g' uwr' r' q'v'f' d'ij' g'g'o r' g'g'0Cn'q'0khi'ug'nt'v'c'p' l'g's' wkr' o' g'p'k'ē'q'p'p'g'v'f' q'q'd'g' j' q'tk' q'p'c'n'k'k'p'g' y' g'uci' k'p'ij' g'k'k'p'g'ij' qwf' d'g'o' k'p'o' k' f' q'q'r' t'g'x'g'p'v'ij' g' f'x'leg' h'q'o' u'nf'k'pi' f' y' q' p'ij' g'N'k'k'p'g' q'c'r' r' quk'q'p'y' k'ej' ē'g'c'g'v'c'u'y' k'pi' j' c'j' c'tf' f' w'k'p'i' hcm'ttgun'0k'p'cm'i'ē'cugu' o' c'p'w'z'ew'g't'g'at'k'p'nt'w'k'q'u'ij' qwf' d'g' h'q'u'y' g'f'0

## Appendix D to Subpart M- Positioning Device Systems

*Pqp/Ocpfcwqt{"'"I wlf gnp gu'  
hqt'Ego rnfkpi 'Y kj 'È3;480724\*g+'*

30Testing Methods For Positioning Device Systems0Vj ku'cr r gpf k' l'xt'g'u'cu'c'  
pqp/o c'p'c'q'c'q' "i' w'k' g'p'g' "q' cu'ku'k' o' r' n' l' g' t' u' o' r' n' l' "y' k' j' "i' g' t' g' s' w'k' g' p' u'  
h'q' t' r' r' q' u' k' s' k' p' l' "g' x' g' l' e' u' u' g' o' u' l' n' g' o' p' E' t' 48/24' g' o' R' c' t' c' j' t' e' r' j' "u' d' d' "t' g' s' o' f' "c' p' f' "t' g' s' g'  
k' j' "C' r' r' g' p' k' "E' g' h' j' u' w' d' r' c' t' o' t' g' r' e' p' i' "y' k' "E' 3: 48/24' g' s' + R' g' t' u' q' u' p' l' H' m' f' C' t' t' u' g' n'  
U' l' n' g' o' u' u' g' v' h' q' t' j' "g' u' n' r' t' q' e' g' w' g' u' y' j' k' j' "o' c' l' "d' w' u' f' "c' r' u' p' i' "y' k' j' "y' g' j'  
r' t' q' e' g' w' p' l' u' g' r' u' n' g' f' d' g' n' y' "u' u' l' g' g' r' e' g' t' o' k' p' g' o' r' n' k' e' p' j' k' j' "y' g' j' t' g' s' w'k' g' p' u' u' h' q' t' r'  
r' q' u' k' s' k' p' l' "g' x' g' l' e' u' u' g' o' u' l' n' g' o' p' E' 3: 48/24' g' s' + c' p' f' "t' g' s' h' j' u' w' d' r' c' t' o' t' o' f'

\*c-#I gpgctn\*3#4Upi ng'wtcr 'r qulsqplpi 'f gxlgu'uj cmfj cxs'qpg'gpf 'cwcej gf 'q' c'hzgf 'cpej qtcj g'cpf 'y g'qy gf 'gpf 'eqppge'gf 'q'c'dqf 't'dgn'qt'j ctpgu'lp'y'g'j uco g'o c'ppgt'cu' y'g'j 'y qwf 't'dg'wuf '32'rt'q'ge'v'go r'qj'ge'u'F qwdng'wtcr "r qulsqplpi 'f gxlgu'uko krt'c'j y'lpf q'y'ercpgt'j'g'dgn'uj cmfj cxs'qpg'gpf 'qh' y'g'wtcr 'cwcej gf 'q'c'hzgf 'cpej qtcj g'cpf 'y g'qy gf 'gpf 'uj cmfj cpi 't'ge'u'



## Fall Protection

Vj g'dqf { "dgn'qt" j ctpguu'uj cmi'dg'cwcej gf "q" yj g'wtrc "lp" yj g'wco g'o cpgpt "cu" k'y q'wrf "dg" wugf "q" r tqvge'v go r nq { ggu0Vj g'y q'wtrc "gpf u'uj cmi'dg'cf lwngf" "q" yj gk' o czlo wo "ur cp0

\*4+Vj g'hzg'f "cpej qtc i g'uj cmi'dg'hk f'0cpf "uj cmi'p'v'j c'xg'c'f ghgve'k'p i tgc'vgt" yj cp'026' lpej gu'3'o o +y j gp'c' hqte'g'qh4.472' r qwpf u'32' nP +k'c'r r'k'ef 0

\*5+Vj wtkpi "y j g'vgn'kpi "qh'cm'f u'ngo u0'c' v'g'u'v y gk i v'qh'472' r qwpf u' r n'w'qt" o k'p'w'5' r qwpf u'335' m' i r n'w'qt" o k'p'w'308' m' +uj cmi'dg'wugf 0'Vj g'y gk i v' u'j cmi'dg'c'hk f' i q'dlge'v y k'j "c' i k'v j' qh'5: "lpej gu'r n'w'qt" o k'p'w'6' lpej gu'3: 8'eo " r n'w'qt" o k'p'w'32'eo +0

\*6+Gcej "v'g'u'v i cmi'eqpuk'v'qh'f tqr r lpi "y j g'ur gek'hgf "y gk i v'qpg'w'o g'y k'j q'w' h'k'w'g'g'h'v j' g'u'ngo "d'gkpi "gungf 0C' p'gy "u'ngo "uj cmi'dg'wugf "hqt" gcej "v'g'u'0

\*7+Vj g'v'g'u'v y gk i v'ht'gcej "v'g'u'v i cmi'dg'g' q'kngf "gzce'v'f "6'h'g'v'30f "o "cdq'xg" k'u'c'v'lg'u'v' q'uk'q'p'c'p'f "uj cmi'dg'f tqr r g'f "u'q'c'u'q' t'gt o k'c'x'g't'ec'v'f'g' h'c'm'q'h' 6'h'g'v'30f "o +0

\*8+Vj g'v'g'u'v k'u' h'k'g'f "y j g'p'x'g't" cp { "dtgc'nci" g'qt" u'r k'c i g' q'ee'w'u" y j k'j " r g'to k'u'v j' g'y gk i v'v'q' h'c'm'f'g'g'q'h'v j' g'u'ngo 0

\*9+Hq'm'y kpi "y j g'v'g'u'0'v j' g'u'ngo "p'g'g'f "p'q'v'd'g'ecr c'd'g'q'h'w'v j' g't" q'r g'tc'v'k'p'z' g'j'q' g'x'q'p' .c'm'w'ej "l'p'ecr c'ek'g'u'j cmi'dg'g'c'f k'f "c'r r c't'g'p'0

**HO Inspection Considerations** 0'Cu' t'gs v'k'g'f "kp" E3; 480724\*#7+ "r q'uk'q'p'kpi " f'x'g'x'g' u'ngo u' o w'u' dg' t'g i w'c't'n' "k'p'ur g'e'v'f 0' Cp { "eqo r q'p'g'v' y k'j " cp { "u'k p'h'ec'p'v'f'g'g'ev' u'w'ej "cu'ew'u' v'g'c'tu' c'd'c'uk'q'p'u' o q'f. "qt" v'p'f'w'g' u'nt'g'ej kpi . "c'ng't'c'v'k'p'u' q't" c'f f'k'k'q'p'u' y j k'j " o k'j v' c'h'g'ev' k'u' g'h'k'g'p'e { "f'c'c' o c' i g' f'w'g' "q" f' g'g't'k'c'v'k'p'z'eq'p'v'c'v' y k'j "h'k'g' c'ek'f u' "qt" v'q'j g't "eq'tt'q'uk'x'g'u'f' k'u'q't'v'g'f "j' q'q'm'q't" h'c'w'm' "j' q'q'm' r t'k'p i u'c' v'q'p i v'g'u' v'p'h'w'g'f "v'q" y j g'uj q'w'rf g't "q'h' d'w'em'g'u'z' u'q'q'g' "qt" f'c'c' o c' i g't " o q'w'p'k'p i u'z' p'q'p/h'p'x'v'k'p'kpi " r c't'u'z' q't " y g'c't'k'p i " q't" k'p'v't'p'c'r i f'g'g't'k'c'v'k'p'k'p' y j g't'q'r g'u' o w'u'd'g' y k'j f' t'c'y p' h'q'o "u'g't'x'k'g' l'o o g'f k'c'v'g'f . "cpf " u'j q'w'rf "dg'v'c' i g'f "q't" o c't'm'g'f "cu'v'p'w'c'd'g' "q't" f' g'u'v'q { g'f 0

## Appendix E to Subpart M-Sample Fall Protection Plan

### Pqp/Ocpfcwqt { 'I wlf gnhpgu' hqt 'Eqo r rlfkpi 'Y k'j 'E3; 480724\*#m'

Go r nq { g'tu' g'p i c' i g'f "kp" n'g'c'f kpi "g'f i g' y q'tn0' r t'g'ec'v' eq'p'et'g'g' eq'p'ut'v'ek'q'p' y q'tn'f' c'p'f " t'g'u'k' g'p'v'c'n' eq'p'ut'v'ek'q'p' y q'tn'f' y j q' ec'p' f' g'o q'p'ut'v'g' y c'v' k'k' k'u' k'p'h'c'uk'd'g' "q't" e't'c'g'v'u' c' i t'g'c'v'g't' j' c'j c'tf "v'q" w'g' eq'p'x'g'p'v'k'p'c'r i h'c'm'f' r t'q'v'g'ek'q'p' u'ngo u' o w'u'f' g'x'g'q'r "c'p'f "h'q'm'y "c' h'c'm'f' r t'q'v'g'ek'q'p' r n'c'p'0' D'g'u'y "c't'g' u'co r n'g' h'c'm'f' r t'q'v'g'ek'q'p' r n'c'p'u' f' g'x'g'q'r g'f " h'q't" r t'g'ec'v' eq'p'et'g'g' eq'p'ut'v'ek'q'p' c'p'f " t'g'u'k' g'p'v'c'n' y q'tn'f' y c'v' eq'w'f "dg'v'c'k'q't'g'f "v'q" dg'v'k'g' "ur gek'h'e" h'q't" q'v'j g't "r t'g'ec'v' eq'p'et'g'g' "q't" t'g'u'k' g'p'v'c'n' l'q'd'uk'g'0'Vj k'u'co r n'g' r n'c'p' ec'p' dg'0' o q'f k'h'g'f "v'q" dg'v'w'g'f " h'q't" q'v'j g't "y q'tn'f' l'p'x'q'3kpi " n'g'c'f kpi " g'f i g' y q'tn0'Vj g' u'co r n'g' r n'c'p' r q'w'k'p'g'u' y g' g' r'g'o g'p'u' v'j c'v' o w'u' dg' c'f f' t'g'u'g'f "kp" c'p { "h'c'm'f' r t'q'v'g'ek'q'p' r n'c'p'0'Vj g' t'g'c'v'q'p'u' q'w'k'p'g'f "kp" y j k'u'co r n'g' h'c'm'f' r t'q'v'g'ek'q'p' r n'c'p' c't'g' h'q't "k'w'u'v'c'x'g'g' r w'r q'g'u' q'p'n' " c'p'f "c't'g' p'q'v'p'g'g'u'c't'k'q' "c'x'c'k'f 0'ce'g'r c'd'g'v' c'v'k'p'c'g' "v'p'g'u'v' y j g' eq'p'f k'k'q'p'u' c'v' y j g' l'q'd' u'k'g' c't'g' y j g' cu'v' y q'g' eq'x'g't'g'f "d { " y g'g' u'co r n'g' r n'c'p'u' h'q't" p'q'v' v'ul'p i "eq'p'x'g'p'v'k'p'c'r i h'c'm'f' r t'q'v'g'ek'q'p' u'ngo u' h'q't "c' r c't'v'w'c't' r t'g' "ec'v' eq'p'et'g'g' " q't" t'g'u'k' g'p'v'c'n' eq'p'ut'v'ek'q'p' y q'tn'uk'g'0' J y g'x'g't. " y j g' u'co r n'g' r n'c'p'u' r t'q'x'k'f g' i w'k' c'p'eg' "v'q" go r nq { g'tu' q'p' " y j g' v' r g' q'h' l'p'h'q'to c'v'k'p' " y c'v' k'u' t'g'v'k'g'f "v'q" dg'f k'ue'w'ug'f "kp" h'c'm'f' r t'q'v'g'ek'q'p' r n'c'p'u'0

## SAMPLE FALL PROTECTION PLANS

### Fall Protection Plan"

#### For Precast/Prestress Concrete Structures

Vj ku' h'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' k'u' r ur gek'h'e' h'q't" y j g' h'q'm'y kpi "r t'q'lg'ev'z'

N'q'ec'v'k'p' q'h' l'q'd' aa

G'g'ev'kpi "Eqo r c'p { "aaa

F'c'v'g' R'nc'p' R't'g'r c't'g'f "q't" 0' q'f k'h'g'f aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

R'nc'p' R't'g'r c't'g'f "D { "aaa

R'nc'p' C'r r t'q'x'g'f "D { "aaa

R'nc'p' U'w' g't'x'k'g'f "D { "aaa

Vj g' h'q'm'y kpi "H'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' k'u' c' u'co r n'g' r t'q'i t'co "r t'g'r c't'g'f "h'q't" y j g' r t'g'x'g'p'v'k'p' q'h' l'p'h'w'g'u' c'u'q'ek'c'v'g'f " y k'j "h'c'm'0' C' h'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' o w'u'v' dg' f' g'x'g'q'r g'f " c'p'f " g'x'c'v'c'v'g'f " q'p' c' u'k'g' d' l' " u'k'g' d'c'u'k'0' k'k' k'u' t'g'eqo o g'p'f g'f " y c'v' g't'g'ev'q'ut'f k'ue'w'u'v' y j g'y t'k'v'g'p' h'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' y k'j " y j g'k' Q'U' L' C' t'g'c' Q'h'g'g' r t'k't' "v'q' i q'kpi "q'p' c' l'q'd'uk'g'0

**I. STATEMENT OF COMPANY POLICY** \*Eqo r c'p { "P'co g'g' "k'u' f' g' l'ec'v'g'f "v'q" y j g' r t'q'v'g'ek'q'p' q'h' k'u' go r nq { g'g'u' h'q'o "q'p' v'j g' l'q'd' l'p'h'w'g'u'0' C'm' go r nq { g'g'u' q'h' \*Eqo r c'p { "P'co g'g'j' c'x'g' y j g't'g'ur q'p'uk'd'k'k'f "v'q' y q'tn'f' u'ch'g'v' "q'p' v'j g' l'q'd'0'Vj g't' w'r q'ug' q'h'v'j 0'u't' n'c'p' k'u'z'c'v' V'q' u'w' r n'g'o g'p'v'q'w' u'nc'p'f c'tf "u'ch'g'v' "r q'r'k'f " d { "r t'q'x'k'f k'p i "u'ch'g'v' "u'nc'p'f c'tf u'r ur gek'h'ec'm'f "f' g'uk' i p'g'f "v'q' eq'x'g't' h'c'm'f' r t'q'v'g'ek'q'p' " y j k'u' l'q'd' c'p'f z'c'v' d'v'q' g'p'u'w'g' y j c'v' g'c'ej "go r nq { g'g' k'u' v'c'k'p'g'f "c'p'f "o c'f g'c'y c't'g' q'h' v'j g' u'ch'g'v' "r t'q'x'k'k'q'p'u' y j k'j "c't'g' v'q' dg' l'o r n'g'o g'p'v'g'f "d { " y j k'u' r n'c'p' r t'k't' "v'q" y j g' u'c't'v'q'h'g't'g'ev'k'p'0

Vj ku' h'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' c'f f' t'g'u'g'u' y j g' w'g' q'h' q'v' g't " y j c'p' eq'p'x'g'p'v'k'p'c'r i h'c'm'f' r t'q'v'g'ek'q'p' c'v'c' p'w'o d'g't' q'h' c't'g'v'q'p' y j g' r t'q'lg'ev'0' c'u' y g'm'f' c'u' k'f g'p'v'h' k'p i "ur gek'h'e' c'ev'k'x'k'g'u' y j c'v't'g' v'k'g' p'q'p' eq'p'x'g'p'v'k'p'c'r i o g'c'p'u' q'h' h'c'm'f' r t'q'v'g'ek'q'p'0'Vj g'ug' c't'g'c'u' k'p'ev'f g'z'

d'AE' q'p'p'g'ev'kpi "c'ev'k'x'k'f "h' r k'p'v'q'h'g't'g'ev'k'p' +0

d'0'g'c'f kpi "g'f i g' y q'tn0'

e'0'v'p' r t'q'v'g'ev'f "u'k' g'u'q't' g'f i g'0

f'0' h' t'q'w'kpi 0

Vj w'u' r n'c'p' k'u' f' g'uk' i p'g'f "v'q" g'p'c'd'g' go r nq { g'tu' c'p'f "go r nq { g'g'u' v'q' t'g'eq' i p'k' g'v'j g' h'c'm'f' c'j c'tf u'v'q' y j k'u' l'q'd' c'p'f "v'q" g'u'v'c'd'k'q' y j g't' t'q'eg'f w'g'u'v' c'v't'g'v'q' dg' h'q'm'y g'f " k'p' q't'f g't "v'q" r t'g'x'g'p'v' h'c'm'f' v'q' n'q'y g't' r'g'x'g'u' q't" y j t'q'w' i "j' q'g'u' c'p'f "q'r g'p'k'p i u'k'p" y c'm'k'p i y q'tn'k'p i "u'w't'h'c'g'u'0' G'cej "go r nq { g'g' y k'n'd'g' u'c'k'p'g'f "p' y j g'ug' r t'q'eg'f w'g'u' c'p'f "u'w'k'v'f "c'f j g't'g'v'q' y j g'o "g'z'ev' v'y j g'p' f' q'k'p i "u'q' y q'w'rf "g'z'r q'ug'v' y j g'o go r nq { g'g' "v'q" c' i t'g'c'v'g't' j' c'j c'tf 0' h'0' k'p' y j g' go r nq { g'g'u' q'r l'p'k'q'p'0' y j k'u' k'u' y j g' ec'ug'0' y j g' go r nq { g'g' k'u' v'q' p'q'v'h'f "y j g' h'q't' go c'p' q'h'v' y j g' eq'p'eg't'p' c'p'f "y j g' eq'p'eg't'p' c'f f' t'g'u'g'f " d'g'h'q't'g' r t'q'eg'g'f kpi 0

U'ch'v'f "r q'r'k'f " c'p'f " r t'q'eg'f w'g' "q'p' c'p { "q'p'g' r t'q'lg'ev' ec'p'p'q'v' dg' c'f o k'p'v'g't'g'f 0' lo r n'g'o g'p'v'g'f 0' o q'p'k'q't'g'f " c'p'f " g'h'q't'g'f " d { " c'p { " q'p'g' k'p'f k'k'f w'c't'0' Vj g' v'q'v'c't' q'd'lg'ev'k'g' q'h'c' u'ch'g'0'ce'ek'f g'p'v'h'g'g' y q'tn'f' g'p'x'k'k'q'o g'p'v'ec'p' q'p'n' "dg' c'ee'q'o r n'k'q' g'f " d { "c'f' g'f k'ec'g'f 0'eq'p'eg't'v'g'f "g'h'q't'v'd { "g'x'g't { "k'p'f k'k'f w'c't' l'p'x'q'x'g'f " y k'j "v'j g't' t'q'lg'ev' h'q'o " o c'p'c' i go g'p'v' f'q'y p' "v'q" y j g' n'w'v' go r nq { g'g'0' G'cej "go r nq { g'g' " o w'u'v' v'p'f g'tu'c'p'f "y j g'k' x'c'v'g'v'q' y j g'eq'o r c'p { z'v' g'eq'u'v'q'h'ce'ek'f g'p'u' d'q'v' "o q'p'g'v'c't { " r j { "u'k'ec'n' c'p'f "go q'v'k'p'c'n'z' y j g' q'd'lg'ev'k'g' q'h'v'j g' u'ch'g'v'f "r q'r'k'f { "c'p'f "r t'q'eg'f w'g'u'z' y j g' u'ch'g'v'f "t'w'g'u'v' c'v'c'r r n'q' "v'q" y j g' u'ch'g'v'f "r q'r'k'f { "c'p'f "r t'q'eg'f w'g'u'z' c'p'f "y j c'v'v'j g'k' "k'p'f k'k'f w'c't' t'q'g' " k'u' k'p' c'f o k'p'k'ng't'k'p i . " lo r n'g'o g'p'v'k'p i . " o q'p'k'q't'k'p i . " c'p'f " eq'o r n'c'p'eg' q'h'v'j g'k' u'ch'g'v'f "r q'r'k'f { "c'p'f "r t'q'eg'f w'g'u'0' Vj k'u' c'm'y u' h'q't" c' o q't'g' " r g'tu'q'p'c'r i c'r r t'q'ej "v'q" eq'o r n'c'p'eg'v'j t'q'w' i " r n'c'p'k'p i 0' v'c'k'p'k'p i 0' v'p'f g'tu'c'p'f kpi " c'p'f "eq'q'r g't'c'v'k'g' g'h'q't'v' t'c'v'j g't "y j c'p' d { "u'w'k'v' g'p'h'q't'eg'o g'p'v'0' h'q't" c'p { "t'g'c'u'q'p' c'p' v'p'uc'h'g' c'ev'r g'tu'k'u'0' u'w'k'v' g'p'h'q't'eg'o g'p'v'v' k'n'd'g' l'o r n'g'o g'p'v'g'f 0

K'k'u'v' g't'g'ur q'p'uk'd'k'k'f "q'h'p'co g'q'h'eq'o r g'ev'p'v'r g'tu'q'p' +v'q' l'o r n'g'o g'p'v'v' k'u' h'c'm'f' R't'q'v'g'ek'q'p' R'nc'p'0' \*P'co g' q'h' Eqo r g'ev'p'v' R'g'tu'q'p' +k'u' t'g'ur q'p'uk'd'g' h'q't" eq'p'v'p'w'c'n' q'd'g't'x'c'v'k'p'c'r i u'ch'g'v'f "e'j g'e'm'f' q'h'v'j g'k' y q'tn'f' g'c'v'k'q'p'u' c'p'f "q' g'p'h'q't'eg' y j g' u'ch'g'v'f " r q'r'k'f { "c'p'f "r t'q'eg'f w'g'u'0'Vj g' h'q't' go c'p' c'v'q' k'u' t'g'ur q'p'uk'd'g' "v'q' eq'tt'g'ev' c'p { "v'p'uc'h'g' c'ev'v' q't" eq'p'f k'k'q'p'u' l'o o g'f k'c'v'g'f 0' k'k'v' y j g' t'g'ur q'p'uk'd'k'k'f "q'h'v'j g' go r nq { g'g'v'q' "v'p'f g'tu'c'p'f " c'p'f " c'f j g't'g'v'q' y j g' r t'q'eg'f w'g'u' q'h'v'j k'u' r n'c'p' c'p'f "v'q" h'q'm'y " y j g' k'p'ut'v'ek'q'p'u' q'h'v'j g' h'q't' go c'p'0' k'k'v' c'v'q' y j g' t'g'ur q'p'uk'd'k'k'f "q'h'v'j g' go r nq { g'g'v'q' d't'k'p i "v'q" o c'p'c' i go g'p'v'v' c'v'g'p'v'k'p' c'p { "v'p'uc'h'g' "q't" j' c'j c'tf q'w'v' eq'p'f k'k'q'p'u' q't" c'ev'v' y j c'v' o c { " ec'w'g'v' k'p'w' { "v'q" g'k'v' g't " y j go u'g'x'g'u' q't" c'p { "q'v' g't" go r nq { g'g'u'0' C'p { " e'j c'p' i g'u'v'q' y j k'u' h'c'm'f' r t'q'v'g'ek'q'p' R'nc'p' o w'u'v' dg' c'r r t'q'x'g'f "d { "p'co g'q'h'5' w'c'h'k'g'f " R'g'tu'q'p'0

## II. FALL PROTECTION SYSTEMS TO BE USED ON THIS PROJECT

Y j g't'g' eq'p'x'g'p'v'k'p'c'r i h'c'm'f' r t'q'v'g'ek'q'p' k'u' l'p'h'c'uk'd'g' "q't" e't'c'g'v'u' c' i t'g'c'v'g't' y j c'j c'tf "c'v' y j g' n'g'c'f kpi "g'f i g' c'p'f "f' w'k'p i "k'p'k'c'n' eq'p'p'g'ev'kpi "c'ev'k'x'k'f. " y j g' r n'c'p' v'q' f'q' y j k'u' y q'tn'f' w'k'p i "g' u'ch'g'v'f "o q'p'k'q't'k'p i "u'ngo "c'p'f "g'z'r q'ug' q'p'n' "c' o l'p'o wo "p'w'o d'g't" q'h' go r nq { g'g'u' h'q't" y j g' v'k'o g' p'g'g'g'u'c't { "v'q" c'ew'c'm'f' c'ee'q'o r n'k'q' " y j g' l'q'd'0'Vj g' o c'z'lo wo "p'w'o d'g't" q'h'v' y q'tn'g'u'v'q' dg'0' o q'p'k'q't'g'f "d { "q'p'g' u'ch'g'v'f "o q'p'k'q't' k'u' u'k'z' " \*8+0' Y g' c't'g' f' g'uk' i p'c'v'k'p i " y j g' h'q'm'y kpi " v'c'k'p'g'f " go r nq { g'g'u' cu' f' g'uk' i p'c'v'g'f " g't'g'ev'q'ut' c'p'f " y j g' { "c't'g' r g'to k'w'g'f "v'q" g'p'v'g't' y j g' eq'p'v'q'm'g'f "c'ee'g'u'v' q'p'g'u' c'p'f " y q'tn'f' y k'j q'w'v'j g' w'g'v' q'h' eq'p'x'g'p'v'k'p'c'r i h'c'm'f' r t'q'v'g'ek'q'p'0

"

"



Uchegv "o qpkqat<"

F guki pcvgf "gt gevqt<"

F guki pcvgf "gt gevqt<"

F guki pcvgf "gt gevqt<"

F guki pcvgf "gt gevqt<"

F guki pcvgf "gt gevqt<"

F guki pcvgf "gt gevqt<"

Vj g"uchegv "o qpkqat"uj cmi'dg"lf gpxhkgf "d{ "y gctkpi "cp"qtcpi g"j ctf "j cv0Vj g" f guki pcvgf "gtgevtu"y knidg"lf gpxhkgf "d{ "qpg"qh"vj g'hqmy kpi "o gvj qf u< 30Vj g{ "y knly gct"cdmg"eqmgtgf "cto "dcpf. "qt"

40Vj g{ "y knly gct"cdmg"eqmgtgf "j ctf "j cv"qt"

50Vj g{ "y knly gct"cdmg"eqmgtgf "xgun0"

Qpnf "lpf kxlf wenu"y kj "ij g cr r tq r tcv g"zr gtlgpeg. "uniku"cpf "tclpki "y knidg" cwj qtk gf "cu" f guki pcvgf "gtgevtu0 Cmi'go r nq{ ggu"y cv"y knidg"y qtnkpi "cu" f guki pcvgf "gtgevtu" wpf gt "y g" uchegv "o qpkqatkpi "u"ungo "uj cmi'j cxg" dggp" tclpgf "cpf "kpwtvegf "lp"ij g'hqmy kpi "ctgcu<

30Tgeqi pklqp"qh"ij g'hcmj c| ctf u"lp"ij g'y qtnictgc"cv"ij g'ngcf kpi "gfi g"cpf " y j gp"o cmi'p "lpklcnleqppgevkpu'r qkpvhq'gtgevkpu'0"

40C'xqlf cpeg"qh'hcmj c| ctf u"wulpi "guvdrkuj gf "y qtni'r tcevegu"y j lej "j cxg" dggp"o cf g'npqy p"aq"ij g'go r nq{ ggu0"

50Tgeqi pklqp"qh"wpuchg"r tcevegu"qt"y qtnkpi "eqpf kkpqu"ij cv'eqwrf "ngcf "q" c" hcm0uwej "cu"y kpf { "eqpf kkpqu0"

60Vj g"hpvevkp. "wug"cpf "qr gcvkqp"qh'uchegv "o qpkqatkpi "u"ungo u"i wctf tckn' u"ungo u" ddf { "dgmj ctpguu"u"ungo u"eqpvtqnl' apgu"cpf "qjy gt"r tqvevkp"q"dg" wugf 0"

70 Vj g" eqtgeve" r tqegf wdg" hqt" gtgevki. "o clpvcikpi. " f kucungo drkpi " cpf" lpu gevki "ij g'u"ungo "u"aq"dg" wugf 0"

80Mpdy ngf i g'qh'eqpwtvevkp"ugs wpege"qt"ij g'gtgevklp"r ncp0"

C"eqphgtgpeg"y knicng"r nceg"r tkt"q"tuctvki "y qtnlpxqkpi cmi'o go dgtu"qh" ij g" gtgevklp" etgy 0 etcpg" etgy " cpf " uwr gtxkujtu" qh' cp{ " qvj gt" eqpetgpf" eqpvtcevktu0 Vj ku" eqphgtgpeg" y kni' dg" eqpf wegf " d{ " yj g" r tgecu" eqpetgvg" gtgevklp" uwr gtxkujtu" lp'ej cti g'qh"ij g'r tqle0F wtkpi "ij g'r tge"y qtnleqphgtgpeg. " gtgevklp" r tqegf wgu"cpf " ugs wpegu"r gt vkgpv"q"ij ku"lqd"y kni'dg"ij qtwi j n" f kuevugf " cpf " uchegv " r tcevegu"q" dg" wugf " y tqwi j qw" yj g" r tqle"v y kni'dg" ur gekhgf 0Hw"y gt. "cni'r gtuqppgny kni'dg"lphqto gf "y cv"ij g'eqpvtqngf "ceeguu" | qpqu"ctg" qh" nko ku" yj cmi'r gtuqppgny qjy gt" y cp" yj qug" f guki pcvgf "gtgevtu" ur gekhcmf "tclpgf "q" y qtnikp"ij cv'ctgc0"

### Uchegv "O qpkqatkpi "U"ungo "

C" uchegv "o qpkqatkpi " u"ungo "o gcpu" c" hcm' r tqgevklp" u"ungo "lp" y j lej "c" eqo r g'evpv'r gtuqp"ku"tgur qpukdg" hqt"tgeqi pki kpi "cpf "y ctpkpi "go r nq{ ggu"qh" hcmj c| ctf u0Vj g'f wkgu"qh"ij g'uchegv "o qpkqat"ctg"q" c<

30Y ctp" d{ "xqleg" y j gp"cr r tqcej kpi "ij g'qr gp"gf i g'lp"cp"wpuchg"o cpggt0"

40Y ctp" d{ "xqleg" h"ij g'tg"ku" c" f cpi g'qwu"ukwcvklp" f g'xgnr kpi "y j lej "ecppqv" dg" uggp" d{ " cpqij gt" r gtuqp" lpxkrngf " y kj " r tqf wev' r nceg" gpx" uwej " cu" c" o go dgt' f gwki "qaw'qh'eqpvtqnl0"

50O cng"ij g'f guki pcvgf "gtgevtu"cy ctg"ij g' { "ctg"lp" c" f cpi g'qwu"ctgc0"

60Dg"eqo r g'evpv'lp"tgeqi pki kpi "hcmj c| ctf u0"

70Y ctp" go r nq{ ggu"y j gp"ij g' { "cr r gct"q"dg" wpcy ctg"qh" c" hcmj c| ctf "qt"ctg" cevki "lp"cp"wpuchg"o cpggt0"

80Dg"qp"ij g'uco g'y cmi'p ly qtnkpi "uwhceg"cu"ij g'o qpkqatgf "go r nq{ ggu"cpf " y kj "lp"xlkucn'iki j vki "f kucpeg"qh"ij g'o qpkqatgf "go r nq{ ggu0"

90Dg"enug"gpqwi j "q"eqo o vplecvg"tcmf "y kj "ij g'go r nq{ ggu0"

: 0P qv'cmny "qjy gt"tgur qpukdkkku"q"gpewo dgt"o qpkqatkpi 0"

## OSHA Standards for the Construction Industry

Ki"ij g"uchegv "o qpkqat" dgeqo gu"vq" gpewo dgtgf "y kj "qjy gt"tgur qpukdkkku"ij g" o qpkqat" uij cmi' \*3+ "uqr " yj g" gtgevklp" r tqeguu" cpf " \*4+ " wtp" qxgt" qjy gt" tgur qpukdkkku"q" c" f guki pcvgf "gtgevt. "qt" \*5+ "wtp" qxgt"ij g" uchegv "o qpkqatkpi " hpvevkp" q" cpqij gt" f guki pcvgf. " eqo r g'evpv' r gtuqp0 Vj g" uchegv "o qpkqatkpi " u"ungo "uj cmi'p qv'dg" wugf "y j gp"ij g'y kpf "ku"wtqpi "gpqwi j "q"ecwug"nqcf u"y kj " rcti g"uwhceg"ctgcu"q"uy kpi "qaw'qh"tcf ksu. "qt"tgumu"lp"nqu"qh'eqpvtqnl'qh"ij g" nqcf. " qt" y j gp" y gcvj gt" eqpf kkpqu" ecwug" yj g" y cmi'p /y qtnkpi " uwhcegu" q" dgeqo g'le { "qt"unkr r gt { 0"

### Control Zone System

C"eqpvtqngf "ceeguu" | qpge"o gcpu"cp"ctgc" f guki pcvgf "cpf "enctnl "o ctnngf. "lp" y j lej "ngcf kpi "gfi g"y qtni'o c{ "vcng"r nceg"y kj qaw"ij g" wug"qh"i wctf tckn' uchegv " pgv'qt" r gtuqpcn' hcm'cttguv'u"ungo u"aq"r tqgev'y g'go r nq{ ggu"lp"ij g'ctgc0Eqpvtqnl' | qpge"u"ungo u"ij cmi'eqo r n" "y kj "ij g'hqmy kpi "r tqxkukpu" c<

30' Y j gp" wugf "q" eqpvtqnl' ceeguu" q" ctgcu" y j g'tg" ngcf kpi " gfi g" cpf " qjy gt" qr g'cv3qpu"ctg"vcnkpi "r nceg"ij g'eqpvtqngf "ceeguu" | qpge"uij cmi'dg" f ghkpgf "d{ "c" eqpvtqnl' hkp'qt" d{ "cp{ "qjy gt"o gcpu"ij cv'gtgu'leu'ceeguu0"

Y j gp'eqpvtqnl' hkp'ctg" wugf 0ij g' { "uij cmi'dg"gtgevgf "p'qv'huu"ij cp'8'hggv'20 "o n'pqt" o qtg"ij cp"82" hggv" \*30 "o n'qt"ij cmi'j g'ngpi yj "qh"ij g"o go dgt" dgkpi "gtgevgf 0' y j lej g'xgt"ku"nguu0Htqo "ij g'ngcf kpi "gfi g0"

40Vj g"eqpvtqnl' hkp'ij cmi'gz'v'p'f "cnkpi "ij g'gpvktg"ngpi yj "qh"ij g"vpr tqvevgf "qt" ngcf kpi "gfi g"cpf "uij cmi'dg"cr r tqzko cvgn' | r ctcn'gn"q"ij g"vpr tqvevgf "qt"ngcf kpi " gfi g0"

50Vj g"eqpvtqnl' hkp'ij cmi'dg"eqppgevgf "qp" gcej "ukf g"q" c"i wctf tckn' u"ungo "qt" y cmi0"

60Eqpvtqnl' hkp'ij cmi'eqpukuv'qh'tqr gu. y kgu. "cr gu. "qt"gs wlc'ngpv'o cvgtkcu. "cpf " uwr r qt vki "uncpej kpu'cu'hqmy u" c<

70Gcej "hkp'ij cmi'dg" hci i gf "qt"qjy gty kug"enctnl "o ctnngf "cv'pqv"o qtg"ij cp"8/ hqyv"30 "o n'lp'gtxcmf"ij kj "ij j /xlukdkk' "o cvgtkcu0"

80Gcej "hkp'ij cmi'dg"tki i gf "cpf "uwr r qtv'gf "lp"uwej "c"y c{ "ij cv'ku"nqy guv'r qkp" \*kpen'v'kpi "uci + "ku"pqv'nguu"ij cp"5; "kpej gu" \*3"o + "Htqo "ij g'y cmi'p ly qtnkpi " uwhceg" cpf "ku"ij ki j guv'r qkp"ku"pqv"o qtg"ij cp"67" kpej gu" \*36"o n'htqo "ij g" y cmi'p ly qtnkpi "uwhceg0"

90Gcej "hkp'ij cmi'j cmi'j cxg" c"o kpo wo "dtgcni'p "utgpi yj "qh422'r qwpf u"0 : "nP -0"

### J qngu

Cmi'qr gplki u"i tgevgf"ij cp"34"lp0"z"34"lp0"y kni'j cxg"r gtlko gvgf "i wctf kpi "qt" eqxgtkpi 0Cmi'r tgf gvgto kpgf "j qngu"y kni'j cxg"ij g' r n"y qqf "eqxgtu"o cf g"lp"ij g" r tgecungtu" { ctf "cpf "uj k' r gf "y kj "ij g"o go dgt"q"ij g' lqduk00Rtkt"q" ewwki " j qngu"qp"ij g' lqd0r tqrgt"r tqvevkp" hqt"ij g'j qng'o wuv'dg"r tqxkf gf "q"r tqvevgf "g" y qtngtu0 Rgtko gvgf "i wctf kpi "qt" eqxgtu" y kni'pqv' dg" tgo qxgf "y kj qaw"ij g" cr r tqxkukq'ij g'gtgevklp" hqtgo cp0"

Rtgecu'eqpetgvg'eqnwo p'gtgevklp"ij tqwi j "ij g'gz'kukpi "f gnti g' /s wktgu"ij cv'o cp { " j qngu"dg"r tqxkf gf "ij tqwi j "ij ku" f gen0Vj gug"ctg"q"dg"eqxgtgf "cpf "r tqvevgf 0' Gzege v' hqt"ij g'qr gplki "dgkpi "ewt'g'p'v' wugf "q"gtgev" c"eqnwo p. "cni'qr gplki " r tqvevkp"ku"q"dg"ngn"wpf kuw'dgf 0Vj g'qr gplki "dgkpi "wpeqxtgf "q"gtgev" c" eqnwo p"y kni'dgeqo g'r ctv'qh"ij g'r qkp'qh'gtgevklp"cpf "y kni'dg"cf f tguugf "cu'r ctv' qh"ij ku" hcm' Rtqvevkp" Rtcp0 Vj ku" wpeqxtgkpi "ku"q"dg" f qpg" cv"ij g' gtgevklp" hqtgo cp0r f k'gtgevklp" cpf " y kni'qpnf " qeev" ko o gf k'evn' r tkt" q" hggf kpi " yj g" eqnwo p"ij tqwi j "ij g'qr gplki 0Qpeg"ij g'gpf "qh"ij g'eqnwo p"ku"ij tqwi j "ij g'urcd" qr gplki. "ij g'tg"y kni'p' hupi gt "gz'ku'c" hcmj c| ctf "cv"ij ku'ngcvklp0"

### III. IMPLEMENTATION OF FALL PROTECTION PLAN

Vj g" uwtvewtg" dgkpi "gtgevgf "ku" c" o wnkukf { "vqcn' r tgecu" eqpetgvg" dwkf kpi " eqpukukpi "qh'eqnwo pu0dgco u0y cmi' cpgu'cpf "j qmny "eqt'g'urdu'cpf "f qvdrig"egg" hqqt"cpf "tqgh'o go dgtu0"

Vj g'hqmy kpi "ku" c' hku'qh"ij g'r tqf wev'cpf "gtgevklp"ukwcvklp"qp"ij ku"lqd<

### Eqmo pu

Hqt"eqnwo pu"32"hn"q"58"hn"nupi 0'go r nq{ ggu" f kucppgevkpi "etcpg"j qqnu"htqo " eqnwo pu"ij kni'y qtni'htqo "c"rcf f g"cpf "y gct" c" ddf { "dgmj ctpguu" y kj "rcp { ctf ""



## Fall Protection

dgnlj ctpguu'y kj "ncp{ctf"cpf"dg"wguf"qhi'y j gp"dqy"j cpf u'ctgpggfgf"q" f kueqppgevoHqt"v lpi "qhi" c" xgtveclrihrgkpy kni'dg"eqppgevgf"q" y' g"rhkpi " g'g'cv'y'g"qr"qhi'y g'eqno p."r tkqt"q" rhkpi ."q"dg"wguf"y kj" c"o cpvcm" qr gtcvgf"qt"o qdkg"tqr g'i tcd0Hqt"eqno pu"vq"j ki j "hqt"v'g"wguf"qhi'c"rcf f gt0' 58"hn/cpf"j ki j gt."cp"cf f g"ecdn"y kni'dg"wguf"q"tgf weg"v'j g'j gki j v'qhi'y'g" f kueqppgevpki"r qlpv"uq"v'cv'c"rcf f gt"ecp"dg"wguf'0Vj ku'ecdn"y kni'dg"ngh'kp" r rceg"wpvkl'c"r qlpv'kp"gtgevkp"v'cv'k'ecp"dg'tgo qxgf"uchgn'0Hq"uqo g"ecug" eqno pu"y kni'dg"wpj qqngf"htqo "v'j g"etcp" d{"wulpi"cp"gtgevkp"wdg"qt" u'j cemg'y kj" c"r wnl'kp'y j lej"ku'tgrcgvgf"htqo "v'j g'itqvpf"chgt"v'g'eqno p'ku' ucdklk'gf'0

Vj g'eqno p"y kni'dg"cf gs wcvgn"eqppgevgf"cpf lqt"dtcegf"q"uchgn"uwr r qtv" v'j g'y gki j v'qhi'c"rcf f gt'y kj"cp"go r nq{gg"qp"ks0

"

### *hpxgtvgf'Vgg'Dgco u'*

Go r nq{ggu'gtgevpki"lpxgtvgf"vgg'dgco u."cv'c"j gki j v'qhi'8"q"62"hn0y kni'gtgevp" v'j g'dgco ."o cng'lpklcnieqppgevkpu"cpf"hpncrki po gpv'htqo "c"rcf f gt0Hij g" go r nq{gg"pggf u"q"tgcej"qxgt"v'j g'ukf'g'qhi'y'g"dgco "q" dct"qt"o cng"cp" cf l'wuo gpv'v'j g'c'riki po gpv'qhi'y'g'dgco ."v'j g'{"y kni'o qvpv'v'j g'dgco "cpf"dg" v'kgf"qhi'v'j g'rhkpi "f g'xleg"kp"v'j g'dgco "chgt"gpwklpi "v'j g'ncf"v'j cu'dggp" ucdl3kl'gf"q"pp"ku' dgctkpi 0'Vq" f kueqppgevp"v'j g'etcp"htqo "v'j g'dgco "cp" go r nq{gg'y kni'wcpf" c"rcf f gt'ci ckpuv'v'j g'dgco 0Dgecwug"v'j g'wguf"qhi'rcf f gtu'ku' pqv'r tcevecl'cv'j gki j w'cdqxg'62"hn0dgco u'y kni'dg"lpklcni"r rceg"y kj"v'j g"wguf"qhi'v'j kni'wcpf"v'j gkt'hpncrki po gpv'o cf g'd{"c"r gtuqp"qp"c"o cprnh'qt" uko kct"go r nq{gg"q'q'klkplpi"u' u'ngo u0

"

### *UrcpftgnDgco u'*

Ur cpf tgn'dgco u'cv'v'j g'gzv'kt'qhi'y'g'dwkl'kpi "y kni'dg"crki pgf"cu'emugn"cu" r quakdg"y kj"v'j g'wguf"qhi'v'j kni'wcpf"y kj"v'j g'hpncrki rcego gpv'qhi'y'g'ur cpf tgn' dgco "o cf g'htqo "c"rcf f gt'cv'v'j g'qr gp'gp'f"qhi'y'g'uweww'g0C"rcf f gt'y kni'dg" wguf"q"o cng'y'g'lpklcnieqppgevkpu'cpf" c"rcf f gt'y kni'dg"wguf"q" f kueqppgevp" v'j g'etcp'0Vj g'q'v'gt"gp'f"qhi'y'g'dgco "y kni'dg"r rceg" d{"v'j g'f guki pcvgf" gtgevt'htqo "v'j g'f qwdng"vgg'y'gnlwpf gt"v'j g'qdugrxcv'kp'qhi'y'g'uchgv"o p'qkgt0 Vj g'dgco u'y kni'dg"cf gs wcvgn"eqppgevgf"cpf lqt"dtcegf"q"uchgn"uwr r qtv'v'j g" y gki j v'qhi'c"rcf f gt'y kj"cp"go r nq{gg"qp"ks0

"

### *Hhqt'bp'f'Tqqh0go dgtu'*

F wtkpi"lpucncv'kp"qhi'y'g'r tgecu'eqpetg'htqt"cpf lqt"tqqh'o go dgtu."v'j g' y qtnlf genieqpv'pwqwn"lpetgcuu'lp"ctgc"cu'o qtg'cpf"o qtg'wpku'ctg'dgkpi" gtgevgf"cpf"r quakpgf'0'Vj wu."v'j g'wpr tqgevgf"hhqt'kqhi"r g'kto gvt"ku' eqpuncpv"o qf'kl'gf"y kj"v'j g'ngcf lpi"gf i g'ej cpi lpi"nqecv'kp"cu'gcej"o go dgt'ku'lpucn'g'0Vj g'hcni' tqgevkp'ht'y qtngtu'cv'v'j g'ngcf lpi"gf i g'uj cni' dg"cuuw'g" d{"r tqr gtn"eqpwtvegf"cpf"o c'p'v'kp'g'eqpwt'qni' qpg'hpgu'pqv"o qtg"v'j cp"82"hn'cy c{"htqo "v'j g'ngcf lpi"gf i g'uw'r r'go gpvgf" d{"v'j g'uchgv"o p'qkgtkpi"u' u'ngo "q"gpw'g'v'j g'uchgv"qhi'cni'f guki pcvgf"gtgevtu'y qtnlpi"y kj'lp'y'g'ctgc" f gh'p'g' d{"v'j g'eqpwt'qni' qpg'hpgu0

Vj g'j qmny"eqt'g'ucdu'gtgevgf"qp'y'g'o cuapt{"r'qt'v'kp'qhi'y'g'dwkl'kpi"y kni'dg" gtgevgf"cpf"i tqw'g'f" wulpi"v'j g'uchgv"o p'qkgtkpi"u' u'ngo 0' f tqw"y kni'dg" r rceg'kp'y'g'ur ceg'dgy ggp"v'j g'gp'f"qhi'y'g'ucdu'cpf" h'ceg'uj gni'qhi'y'g'eqpetgvg"o cuapt{"d{"f'wo r lpi"htqo "c"y j ggnidctqy 0'Vj g"i tqw"kp"v'j g'ng{"y c{"u' dgy ggp"v'j g'ucdu'y kni'dg" f'wo r g'f'htqo "c"y j ggnidctqy"cpf"v'j gp'ur tgc'f"y kj" nqpi"j cpf ngf"v'q'qnu"cmny lpi"v'j g'y qtngt"q"ucpf"gtgevp'hcelpi"v'qy ctf"v'j g'wpr tqgevgf"gf i g'cpf'dcen'htqo'cp{"y qtnlf genigf i g0

Y j gpgxgt"r quakdg."v'j g'f guki pcvgf"gtgevtu'y kni'cr r tqcej"v'j g'lp'eqo lpi"o go dgt"cp'v'j g'ngcf lpi"gf i g'qpn"chgt"ks'ku'dgny"y ckuv'j gki j v'v'q"v'v'j g"o go dgt'ksu'gh'r tqx'k'gu'r tqgevkp"ci ckpu'hcni0

Gzegr v'ht"v'j g'ukswcv'kp'u'f gnetldg"dgny"."y j gp"v'j g'cttkkpi"hhqt"qt"tqqh"o go dgt'ku'y kj'lp"4"q"5"l'pej gu'qhi'ku'hpncr'quakqp."v'j g'f guki pcvgf"gtgevtu'ecp"v'j gp"r tqeggf"q"v'j gkt"r quakqp"qhi'gtgevkp"cv'gcej"gp'f"qhi'y'g"o go dgt"wpf gt"v'j g'eqpwt'qni'qhi'y'g'uchgv"o p'qkgt0Etcpg"j qanu'y kni'dg"wpj qqngf"htqo "f qwdng"vgg"o go dgtu" d{"f guki pcvgf"gtgevtu'wpf gt"v'j g'f k'gevkp"cpf"uwr gtx'klkpl'qhi'y'g'uchgv"o p'qkgt0

F guki pcvgf"gtgevtu"y j kg'y cklpi"ht"v'j g'pgzv'hhqt"qt"tqqh'o go dgt."y kni'dg"eqpuncpv"wpf gt"v'j g'eqpwt'qni'qhi'y'g'uchgv"o p'qkgt"ht"hcni' tqgevkp"cpf"ctg" f k'gevgf"q"uc{"c"o p'kto wo"qhi'ukz"8+h"htqo "v'j g'gf i g0Hq"v'j g'gxgpv"c" f guki pcvgf"gtgevt"o wuv"o qxg'htqo"qpg"gp'f"qhi'c"o go dgt."y j lej"j cu'lwuv"

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dggp"r rceg"cv'v'j g'ngcf lpi"gf i g0y'g{"o wuv'htuv'o qxg"cy c{"htqo "v'j g'ngcf lpi"gf i g" c"o p'kto wo"qhi'ukz"8+h"hp'cpf"v'j gp"r tqi' t'g'uu"v'q"v'j g'q'v'gt"gp'f"y j kg"o c'p'v'kp'kpi"v'j g'o p'kto wo" f kucpeg'qhi'ukz"8+h'cv'cni'w'o gu0

G'gevkp"qhi'f qwdng"vgg"y j g'g'eqpf kskpu'tgs vkt'g"dgctkpi"qhi'qpg"gp'f"lp'vq" c"enqugf"r qengv'cpf"v'j g'q'v'gt"gp'f"qp" c"dgco"ngf i g."gnl'ekv'pi"v'j g'vgg'ngi u'htqo "i q'kpi" f k'gevgf"lp'vq"v'j g'r qengv"tgs vkt'g'ur gek'nieqpu'k'ctv'kp'0Vj g'vgg'ngi u'v'j cv'ctg"q"dgct"kp"v'j g'enqugf"r qengv'o wuv'j cpi"ny gt"v'j cp"v'j qug"cv'v'j g'dgco"dgctkpi 0Vj g'f qwdng"vgg'y kni'dg"ow'q'hp'gf o'lp'qt'f"v'q"ngxcv'g'qpg"gp'f"j ki j gt"v'j cp"v'j g'q'v'gt"q"cmny"ht"v'j g'my"gp'f"q"dg" f wengf"lp'vq"v'j g'enqugf"r qengv'wulpi"v'j g'hn'ny lpi"r tqegf w'g0

Vj g'f qwdng"vgg'y kni'dg"tki i gf"y kj" c"ucpf ctf"hhw'y c{"ur t'gcf gt"qhi'qhi'y'g"o c'p'ngcf"hp'g0C'p'cf f kskpnc'ej qngt"y kni'dg"cwcej gf"q"v'j g'o ctt'kgf"r qlpv'qhi'y'g'y'q'ni' i gf"ur t'gcf gt"cv'v'j g'gp'f"qhi'y'g'vgg'v'j cv'ku'q"dg"ngxcv'g'0Vj g'f qwdng"vgg'y kni'dg"j q'kngf"y kj"v'j g'o c'p'ngcf"hp'g'cp'f"i'w'p'lp'vq" c'r quakqp"cu'emug"cu"r quakdg"v'j g'vgg'u'hpncr'dgctkpi"ngxcv'kp'0Y'j gp'v'g'vgg'ku'lp'y'ku't quakqp'cp'f"ucdl3kl'gf."v'j g'y j k'r'hp'g'ngcf"dm'nenly kni'dg'ny gt'gf"q"lwuv'cdq'xg"v'j g'vgg'f gen0' C'v'v'j ku'k'o g"y q'gtgevtu'y kni'y cni'q'w'ap"v'j g'uw'r gp'gf gf"vgg'f genic'v'o k'f ur cp"qhi'y'g'vgg"o go dgt'cp'f"r wnl'y'g'ngcf"dm'eni'v'j y'g'gp'f"qhi'y'g'vgg'v'q"dg"ngxcv'g"cp'f"cwcej"v'j g'cf f kskpnc'ej qngt"q"v'j g'ngcf"dm'gen0'Vj g"r quakdg"qhi'gp'v'pi'ngo gp'v'y kj"v'j g'etcp'g'hp'gu'cp'f"q'v'gt"qdu'c'ng'u'f wtkpi"v'j ku'y'q'hp'kpi"r tqegui'y j kg't'cklpi"cp'f"ny gt'kpi"v'j g'etcp'g'dm'eni'kp'y'cv'ugeqpf"hp'g'eqw'f"dg"j c'cl c'f q'w'u'q'cp'gpewo dgt'gf"go r nq{gg'0Vj g'tghqt'g."v'j g'f guki pcvgf"gtgevtu'y kni'pqv'kg'qhi'ht'wtkpi"cp{"r'ctv'qhi'y'g'ngf"v'j g'f guki pcvgf"gtgevtu'ct'g'qp"v'j g'f qwdng"vgg'0v'j g'uchgv"o p'qkgtkpi"u' u'ngo "y kni'dg"wguf'0C'chgt"cwcej lpi"v'j g'ej qngt."v'j g'y q'gtgevtu'y gp'ng'r"dcen'lp'v'j g'r t'g'x'q'w'ng'gtgevgf"vgg'f genic'p'f"uki p'cn'y'g'etcp'g'qr g'ctv'q'v'j q'k'n'y'g'ngcf"y kj"v'j g'y j k'r'hp'g'v'j g'g'ngxcv'kp'y'cv'v'j kni'cmny"ht"gp'q'w'j"r'engct'p'g'v'q'ngv'y j kg'y"gp'f"vgg'ngi u'ukf'g'lp'vq"v'j g'r qengw'y j gp"v'j g'o c'p'ngcf"hp'g'ku'ny gt'gf 0Vj g'gtgevt."y j q'ku'j cpf'kpi"v'j g'ny gt'gf"gp'f"qhi'v'j g'vgg'cv'v'j g'enqugf"r qengv'dgctkpi 0'y kni'w'r"q'w'qp"v'j g'uw'r gp'gf"vgg'0C'p'gtgevkp'dct"y kni'y gp'dg'r rceg"dgw'ggp"v'j g'gp'f"qhi'y'g'vgg'ngi"cp'f"v'j g'lp'ukf'g'h'ceg"qhi'y'g'r qengvgf"ur cpf tgn'o go dgt'0Vj g'vgg'ku'dctt'gf"cy c{"htqo "v'j g'r qengvgf"o go dgt'v'q'f'g'w'eg"v'j g'ht'ekv'kp'cp'f"rcv'gt'cni'hteg"ci ckpu"v'j g'r qengvgf"o go dgt'0Cu'y'g'vgg'ku'dgkpi"ny gt'gf 0v'j g'q'y gt'gtgevt'ht'go ckpu'qp"v'j g'vgg'y j lej"y cu'r t'g'x'q'w'ng'gtgevgf"v'j c'p'f'ng'y'g'q'v'gt'gp'f'0C'v'y'ku'r qlpv'v'j g'vgg'ku'ny"n"ny gt'gf d{"v'j g'etcp'g'v'q'ngv'y j g'g'v'g'vgg'ngi u'ecp'ht'g'ng'ukf'g'lp'vq"v'j g'r qengw'0Vj g'gtgevt"y qtnlpi"v'j g'ny gt'gf"gp'f"qhi'y'g'vgg"o wuv'ng'r"r'g'uu'w'g"qp"v'j g'dct"dgw'ggp"v'j g'vgg'cp'f"v'j g'h'ceg"qhi'y'g'r qengvgf"ur cpf tgn'o go dgt"q"xtg{"i t'cf w'cnl"ngv'v'j g'vgg'ngi u'ukf'g'lp'vq"v'j g'r qengv'v'q'ku'r tq'gt"dgctkpi" f l'ko gpukp'0'Vj g'vgg'ku'v'j gp"un'y n"ny gt'gf"lp'vq"ku'hpncr'gtgevgf"r quakqp0

Vj g'f guki pcvgf"gtgevt"uj q'w'f"dg"cmny gf"qp'vq"v'j g'uw'r gp'gf gf" f qwdng"vgg'0'q'v'gt'y kg'y'j g'g'ku'p'q'eqpwt'qni'qxgt"v'j g'j q'k'q'p'cn'o q'xgo gpv'qhi'y'g'f qwdng"vgg"cp'f"v'j ku'o q'xgo gpv'eqw'r"npq'eni'y'g'ur cpf tgn'qhi'qhi'ku'dgctkpi"qt"v'j g'eqno p"q'w'qhi'r nwo d0Vj g'eqpwt'qni'p'gegu'ct{"v'q'r t'g'x'gp'v'j k'wpi"v'j g'ur cpf t'gn'ep'q'p'ni'dg" f qpg'uchgn"htqo "v'j g'v'q'r"qhi'y'g'f qwdng"vgg'dgkpi"gtgevgf'0

Nqcf dgctkpi"Y cmi'Rcp'gn<Vj g'gtgevkp"qhi'y'g'ngcf dgctkpi"y cni'r cpgnu'qp"v'j g'g'ngxcv'g" f gemi'tgs vkt'gu"v'j g'wguf"qhi'c"uchgv"o p'qkgt"cpf" c'eqpwt'qngf"ceeguu"l'qpg"v'j cv'ku'c"o p'kto wo"qh'47"hn/cpf" c"o czko wo"qh'n4"v'j g'ngpi"v'j qhi'y'g'y cni'r cpgnu'cy c{"htqo "v'j g'wpr tqgevgf"gf i g."uq"v'j cv'f guki pcvgf"gtgevtu'ecp"o q'xg'ht'gng"cpf"wp'g'pewo dgt'gf"y j gp't'gegk'kpi"v'j g'r cpgnu'0D'celpi"l'h'tgs vkt'gf"ht"ucdlk'k'f."y kni'dg'lpucn'g'f" d{"rcf f gt0C'chgt"v'j g'dtcegu'ct'g'hw'eg'f."v'j g'etcp'g'y kni'dg'f kueqppgevgf"htqo "v'j g'y cni'd{"wulpi" c"rcf f gt0Vj g'y cni'q'y cni'eqppgevkpu"y kni'cu'q'dg'r gth'qto gf"htqo "c"rcf f gt0

P qp/Nqcf dgctkpi"Rcp'gnu"En'cf f lpi <Vj g'ngc'v'kpi"qhi'ux'g{"hp'gu."r cpgn'rc{"q'w"cpf"q'v'gt"lpucncv'kp"r t'g'tgs vkt'gu"8'tgy grf lpi."ge0"ht"pqp/ngcf dgctkpi"r cpgnu"en'cf f lpi +y kni'pq'v'eqo o g'peg'wp'v'k'hhqt"r g'kto g'gt"cp'f"hhqt"qr gp'kpi u"j c'xg' dggp"r tqgevgf'0'k'p' u'qo g"ct'gcu."k"ku'p'gegu'ct{"dg'ecw'g'qhi'r cpgn'eq'khi'w'cv'kp"v'j t'go q'xg"v'j g'r g'kto g'vgt"r tqgevkp"cu"v'j g'en'cf f lpi"ku'dgkpi"lpucn'g'0T'go q'x'cn'qhi'r g'kto g'vgt"r tqgevkp"y kni'dg'r g'g'qto gf"qp" c'dc{"v'q'dc{"dcuku."lwuv'c'j g'cf"qhi'en'cf f lpi"gtgevkp"q"o p'kto k'g'v'go r q'ct'ckn"wp'r tqgevgf"hhqt"gf i gu0Vj q'ug'y qtngtu'y kj'lp"8"hn'qhi'y'g'gf i g."t'gegk'kpi"cp'f"r quakqp'kpi"v'j g'en'cf f lpi"v'j gp'v'j g'r g'kto g'vgt"r tqgevkp"ku'tgo q'xg'f"uj cni'dg'v'g'f"qhi'0

"



Go r nq [ggu]gzr qugr "q" hcmi qh'ulz "8+lhggv"qt o qtg"q"nyq g't hgxgn'uy j q'ctg" pqv'cevks'gn "gpi ci gf "kp"rgfc pki "gf i g'y qtm'qt"eqppgevpki "cevks'kf. "uwej "cu' y gfr lpi. "dnqkpi. "eww'kpi. "dteckpi. i w'kpi. "r cvej lpi. "r ckp'vki p'ctg" q'y gt" qrg'cev'kpu'qnf "j'y q'ctg"y qtnqkpi "hgu'i q'cp'ulz"8+h'ltqo "cp'wpr tqgevef'gf i g' y knid'v'gef "qht'c'v'cm'ko gu'qt i wctf tcn'u'y knid'g'lpucn'gf OGo r nq [ggu]g'i q'cp' l'p'y g'ug'cevks'k'gu'dw'y j q'ctg'o q'tg'y cp'ulz"8+h'ltqo "cp'wpr tqgevef'gf i g' cu'f g'gh'p'gf d'f "j'y g'eqp'v'qt [qpg'h'p'gu."f q"pqv'tgs w'k'g' hcm'i r tqgevep' dw'c" y ctp'kpi "h'p'qt'eqp'wt'q'hn'p'gu'o w'u'd'g'gt'gevef' q'tgo g'p'o Go r nq [ggu'y] g'l'ctg' cr t'qcej lpi "cp'ct'g'c'y j g'tg'hcm'i tqgevep'ku'lt's w'k'gf O'

[illegible][illegible]

30' K' K' pgeguact{ 'j cv' 'j g' go r m{ [g' dg' c dng' vq' o xqg' lt ggn{ 'y kj qw' gpewo dtcpep'lp'qt'f g't'q'i' vkt g'v'j g'ugevqpu'qh'r' tgecu'veqepet g'g'lp'q'j' gk' t'p'c'n' r'quksk'p' 'y kj qw'j' cxkpi' t'ng'p'g'w'cew'f' 'y'j' lej' 'y' km't'gurt'le'v'j' g' go r m{ [ggu' c dmk' 'q' o xqg'cdaw'cv'v'j' g't' l'p'q'v'h't'et'g'ek'p'0'

[illegible][illegible]

50' Go r m[ggu'vɛf'vɪ'c'ɪhɛŋp'ɛp'dg'vɛrɪf'ɪ'ɪ'ɛtʊɪf'ɪ'dɪ'o'ɔxɪp'ɪ  
 ʊvɛwɛrɪ'o'go'dɪu'kɪ'j'g'o'r m[gg'dgeqo'gu'tɛwɪkɪp'ɪ'dɪ'j'g'ɪp[ɪ'ɪ'ɪ'ɪ'  
 tɛtɛvɛdɪ'ɪhɛŋp'ɪp'ɛcpɔvɪ'ɪ'vɔw'qɪ'v'g'ɪ'v'qɪ'v'g'o'ɔxɪp'ɪ'ɪ'ɪ'ɪ'ɪ'

[illegible]

Y j gp'pgeguxt{"q" o qxg'cy c{"hgo "o"tgtcewdng'f gxleg.'j'g'y q'tngt'ecppqv'  
o qxg'cv'c'tcvg'j tgcvt'g'j cp'j'g'g'f gxleg'memipi'ur ggt'f'r lecm'50'q'60'hwage0'  
Y j gp' o qxkpi'q'qy ctf'j'g'g'f gxleg'k'k'ur'pgeguxt{"q" o qxg'cv'c'tcvg'j'lej'f'ggu'  
p'egrt'gto'0'edcng'urueni'q'j'q'wng'w'r'0'Vj'k'urueni' o c{'ecwng'edng'j'gtcevcqp'  
ceegrtcvqp'cp'p'ecwug'c'y dntgt'q'q'q'q'q'g'gk'dcmpegd'{'crr'q'kpi'c'j'k'j'g'j'p'  
pqto'crl'gtmipi'htqet'qp'j'g'dqf'{'y'j'gp'j'g'edcng'uwf'f'gpn'{"dgeqo'gu'cw'cngt'  
dwf'kpi'w"o'qo'gpwo'0'Vj'k'urueni'ecp'cnq'ecwug'f'co'ci'g'q'j'g'g'k'p'gt'pcrl'  
ur'kpi'nycf'gf'f'pwo'."wpgxgp'eqkipi'q'h'edcng'qp'j'g'g'two'."cpf'r'quidng'edcng'  
f'co'ci'g'0'

Vj g'hcevtu'ecwukpi 'uwf f gp"o qxgo gpw'htq'tj ku'mecvqp'kpenf g<

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*3+Ar gtcvqt"gttqt0
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\*4-Ákg"eqpf kklqpu"\*uqhv"qt"wpwcdng"i tqwpf -0'

\*5+Á ge j cplecn'hckmw g0

\*6-Ánt we wt cn'hc knwt g0

\*7-Áki i kpi 'hckwtg0

\*8-~~A~~tcpg"uki pcnlcf kq"eqo o wplecvkp"hc kwt g0'

\*3-~~A~~ kpf \*utqpi 'y kpf lwf f gp'i wukpi +r ctvwetn( 'c'r tqdngo 'y kj 'y g'xti g"  
uwthceg"ctgeu'qh'r tgecu'eqpetgw'o go dgtuO'

\*4+Ápqy ltckp'\*xkukdkrkv{ +0'

\*5-Álqi "xkukdkrkv{ +0"

\*6+Áqnf/ecwukpi 'um

\*e+'UtwewtgIRtaf wev'Eapf kkapu0

\*3+'Nknpj 'G{ g'hckwt g0

\*4+Ágctkpi 'hckwtg"qt'unkr ci g0'

\*5-Áwtewwt g"ui khkpi O'

\*6-Átcekni "hckwt o0"

\*7±Rt af wev'hrkwt o()

\*f+ "I wo ep"Gttat0

\*3+<sup>h</sup>keattgevc<sup>i</sup> 'n<sup>g</sup>r tgefw<sup>g</sup>0'

\*4-Áci "ikog"i cpi /wr 0'

\*5+Áoeqtt gev"qt"o kwpf gtuvqf "etcpg"uki pcnu0

\*6+"O kulwf i gf "gpxcvkap"ah"o go dgtO'

\*7-~~A~~ kulwf i gf "ur ggf "qh'o go dgt0'

\*8+Á kulwf i gf "cpi nq"qh"o go dgt0'

[illegible]

70/Rtqxlfi kpi "cwcej o gpv'v'c"r r qlp'cdqxs"j g'y cmi pi ly qtnpi "utw'heg'y qvrf'c  
cni" etgc'g' h'ni' g'zr quw'g' lut' go r rqi'ggu' h'puncni" "j gk' f'gxkegu' H'pnci'  
r quksqkpi "q'ht'c'g'etguc'epetg'g'o go dgt'gs wku'g'u'q'dg'o qxgf'lp'utwej "c'y c l'  
j' cvls'o w'ni'c'u'v'j tqwi j' j' g'tc'g'j cvly qvrf'wg' d'geew'kg' f'd' j' g'h'k'p'g'cpf' j' g'  
r'p'ctf'u'cwcej gf' "q'j g' r'q'p'cdqxs'g'OTguw'ni" g'pvcpi'g'o g'pva'q'hi'h'k'p'g'cpf'  
r'p'ctf'u'qp'c'o o xqpi "o go dgt'eqw'f'r wni'go r rqi'ggu'it'go "j g'y q'ni'utw'heg'  
C'ni'q'o'f'j' utwewt'g'ku'dgpi "etgc'g'cpf'0'lp' o quv'ecugu' "j g'tg'ku'pq' utwewt'g'  
cdax'g'j e'g'o go detu'd'kpi "r'nc'g'f'0



Fall Protection

\*c+ Vgo r qtct { "utwewtcn' uwr r qtu' l'pucm'g" "vq" r tqxkf g' cwcej lpi "r qlpw' hqt" rñgñp'g' ño k' y' g' ur ceg' y j lej "ku' guagp'v'cn' hqt" qtf gtn { "r qukskplpi " "cñi po gpv' cpf" r ñceg' gpv' qh' y' g' r tgecu' eqpetg'g' o go dgtu' Vq' ngr " y' g' ñcp { ctf u' c' tgecu' pcdñ' cpf " o cpci gdcñ' ñgpi y' . "ññgñp'g' uwr r qtu' y' qwf " p'geguactñ { "pggf "vq" dg' lp' r tqzlo kñ' "vq" y' g' r qukskplpi " r tgegu' C' " uwf f gp' u' ññ' qh' y' g' r tgecu' eqpetg'g' o go dgt' dglpi " r qukskpgf " dgecuw' qh' y' kpf " r tguu'w' g' qt' etcp'g' o qxg' gpv' eqwf " o cng' k' uññg' y' g' "go r qtct { "uwr r qtu' lpi " utwewt'g' " o qxlpi " k' uwf f gpñ { cpf " ecwulpi " ñg'f " qh' ñgo r nq { ggu' vq' hcn' }

\*d+ Vj g' ño g' lp' o cpj qwtu' y j lej " y' qwf " dg' g'zr gp'f g' " lp' r ñcelpi " cpf " o clp'clp'pi " vgo r qtct { "utwewtcn' uwr r qtu' hqt' rñgñp'g' cwcej lpi " r qlpw' eqwf " g'zegf " y' g' g'zr gp'f g' " o cpj qwtu' l'p'xñkf g' " lp' r ñcelpi " y' g' r tgecu' eqpetg'g' o go dgtu' P' q' r tqg'ev'kp' eqwf " dg' r tqxkf g'f " hqt' y' g' go r nq { ggu' g' ev'kpi " y' g' vgo r qtct { "utwewtcn' uwr r qtu' cpf " y' g' u' uwr r qtu' y' qwf " j' cxg' vq' dg' o qxg'f " hqt' " gcej " uweegu'k'g' uñg' " lp' y' g' eqp'ut' cw'f r tgeguu' y' wu. " i tgecu' l'p'et'g'culpi " y' g' go r nq { ggu' g'zr qwt'g' vq' y' g' hcn' j' cl ctf' }

\*e+ Vj g' wug' qh' c' ecñg' uñwpi " y' qtk' qp'v'cn' " dg' y' g'gp' y' q' eqno pu' vq' r tqxkf g' ñg' qh' ñp'g' hqt' g' ev'kpi " qt' y' cñlpi " c' dgco " hqt' eqpp'g'ev'kpi " y' qtnñ' l'p'q'v' hgcñdñ' cpf " et'g'cu' ñ' i tgecu' j' cl ctf " qp' y' ku' ño wñk' uñt { " dñk' lpi " hqt' y' g' hñm' y' lpi " tgecu' pu' }

\*3+ ñc' eqpp'g'ev'kpi " ku' vq' wug' uñej " c' ñp'g. " k' o wu' dg' l'pucm'g' dg' y' g'gp' y' g' w' y' q' eqno pu' Vq' r gñh' to " y' ku' l'pucm'ev'kpi " t'g' wñg' u' cp' g' tgecu' t' vq' " j' cxg' o q' t'g' hcn' g'zr qwt'g' ño g' cwcej lpi " y' g' ecñg' vq' y' g' eqno pu' y' cp' y' qwf " dg' u' r gpv' vq' o cng' y' g' dgco " vq' eqno p' eqpp'g'ev'kpi " ku' gñ' }

\*4+ ñc' uñej " c' ñp'g' ku' vq' dg' l'pucm'g' uñ' y' j' cp' g' tgecu' t' ec' p' y' cñl'cñpi " c' dgco 0ñk' o wu' dg' q'xgt' gcf " qt' dgñy " j' lo 0ñk' t' g'zco r ñg. " ñc' eqpp'g'ev'kpi " o wu' y' cñl'cñpi " c' 46' l'p' 0ñk' l'f g' dgco 0ñk' y' g' r tgecu' p' qh' c' ñp'g' p' g'z v' vq' y' g' eqpp'g'ev'kpi " c' v' y' cñl'cñp'g' cwcej g'f " f' t' g'ev'ñ " vq' y' g' eqno pu. " y' qwf " r t' g'gp' v' y' g' eqpp'g'ev'kpi " h' to " eg'p'gt' lpi " y' g' k' y' g' k' i j' v' q'xgt' y' g' dgco " cpf " dñc' p'elpi " y' g' uñk' g' u' l'pucm'pi " y' g' ñp'g' c' d'q'xg' y' g' eqpp'g'ev'kpi " o k' i j' v' dg' r quñdñ' " ap' y' g' h' u' v' ñg' xñ' qh' c' " y' q' uñt { " eqno p- c' j' qy g' xgt. " y' g' eqno p' o c' { " g'z'gp'f " qpñ { " c' h'ey " h'eg' v' c' d'q'xg' y' g' h' q' t' ñg' xñ' c' v' y' g' u' g' eqp'f " ñg' xñ' q' t' dg' h' u' j' " y' k' j' " y' g' h' q' t' ñg' xñ' C' cwcej lpi " y' g' ñp'g' vq' y' g' uñk' g' qh' y' g' dgco " eqwf " dg' c' uñk' wñk' p- c' j' qy g' xgt. " ñy' qwf " t' g' wñk' y' g' g' eqpp'g'ev'kpi " vq' cwcej " y' g' h' p' { ctf " dgñy " h' q' v' ñg' xñ' y' j' lej " y' qwf " o qu' ññgñ " g'z'gp'f " c' hcn' t' h' t' y' g' t' y' cp' 8' hñ' }

\*5+ Y j' gp' ñp'g' u' c' t' g' uñwpi " q' xgt' g' xgt { " dgco . ñ' dgco go ño q' t' g' cpf " o q' t' g' f' kñ' ewñ' hqt' y' g' et' c' p' g' r' g' t' c' v' q' t' vq' h' y' g' t' c' r' tgecu' eqpetg'g' o go dgt' l'p' q' r qukskpl' y' k' j' qwf " y' g' o go dgt' dgco lpi " h' q' w' g' f' 0ñk' qwf " y' g' o go dgt' dgco g' gp' cpi ñg' . " ñ' eqwf " g' cuñ { " f' kñ' f' i g' y' g' ñp'g' h' to " c' eqno p' 0ñk' c' y' q' t' gñt' ñ' uñg'f " vq' k' c' v' y' g' ño g' . " c' hcn' eqwf " dg' ecwug' f' }

80 Vj g' CP UKC3206/3 ; 3 " C' go tlecp " P' c' v' k' p' u' C' u' cp' f' ctf " hqt " Eqpu' t' ev' k' p' cpf " F' go qñk' k' p' Qr g' t' c' v' k' p' u' T' g' s' wñk' go gpw' hqt " Uñg' v { " Dgñu. " J' c' t' p' gñuñ " N' cp { ctf u' cpñ " ññgñp'g' hqt " Eqpu' t' ev' k' p' cpf " F' go qñk' k' p' Wñg. " u' c' v' y' c' v' y' g' c' p' e' j' q' t' r' q' l' p' v' qh' c' " ñp { ctf " qt " f' g' e' g' n' t' c' v' k' p' " f' g' x' l' e' g' " u' j' q' w' f. " ññ' r' quñdñ. " dg' ñg' e' c' v' g'f " c' d' q' x' g' " y' g' y' g' t' g' t' u' d' gñ' / q' t' " j' c' t' p' gñu " cwcej o gpñ / CP UKC3206 " cñq " u' c' v' y' c' v' c' " uñk' c' dñg " c' p' e' j' q' t' c' i' g' r' q' l' p' v' k' u' q' p' g' y' j' lej " ku' ñg' e' c' v' g'f " cu' j' k' j' " cu' r' quñdñ " vq' r' t' g' x' p' v' eqp' c' v' y' k' j' " cp " q' dñt' ev' k' p' dgñy " u' j' q' w' f " y' g' y' q' t' gñt " hcn' / O qu' v' o c' p' wñc' wñt' g' t' u' cñq " y' c' t' p' l' p' " y' g' wñt' u' j' cpf d' qññ' y' c' v' y' g' uñg' v { " dñqññ' g' t' c' v' c' dñg " ññgñp'g' o wñ' dg' r' qukskpgf " c' d' q' x' g' " y' g' F / t' p' i " " c' d' q' x' g' " y' g' y' q' tññ' u' c' e' g' qh' y' g' l' p' v' g' f' g'f " wñt' + cpf " QU' C " t' g' e' q' o g' p' f' u' " y' c' v' hcn' c' t' t' gñu " cpf " t' gñt' c' l' p' v' g' s' wñk' o gpv' dg' " wñg " lp' c' e' e' q' t' f' c' p' e' g' y' k' j' " y' g' o c' p' wñc' wñt' g' t' u' l' p' u' t' ev' k' p' u' }

Cwcej o gpv' qh' c' t' g' t' c' v' c' dñg " f' g' x' l' e' g' " vq " c " j' q' t' k' qp' v' cñ' ecñdñ " p' g' c' t " hñq' t " ñg' xñ' q' t " wñpi " y' g' l' p' u' g' t' u' l' p' y' g' hñq' t " q' t' l' q' qh' o go dgtu' o c { " t' gñuñ / l' p' l' p' e' t' g' c' u' g' f " h' g' g' hcn' f' v' g' " vq " y' g' f' q' t' u' cñ' F / t' p' i " qh' y' g' hñm' " d' q' f { " j' c' t' p' gñu " t' k' l' p' i " j' k' j' g' t " y' cp " y' g' cwcej o gpv' r' q' l' p' v' qh' y' g' u' p' c' j' qññ' vq " y' g' ecñdñ " q' t' l' p' u' g' t' v " gñ 0ñk' hñq' v' cññ' y' q' t' gñt " y' k' j' " c' f' q' t' u' cñ' F / t' p' i " c' v' 7 " h' g' v' c' d' q' x' g' " y' g' hñq' t " q' t' uñt' c' e' g. " t' g' f' w' e' gñ " y' g' y' q' tñkpi " ñgpi y' " vq " qpñ { " q' p' g' hñq' v " d { " r' ñcelpi " y' g' c' p' e' j' q' t' c' i' g' hñk' g' h' g' v' c' y' c { " h' to " y' g' hcn' j' c' l' ctf + 0ñk' " c' f' f' k' k' p. " lo r c' e' v' ñg' f' u' o c { " g' z' e' g' g'f " o c' z' lo wo " hcn' c' t' t' gñu " hñt' e' gñ " \* O C H " d' g' e' c' w' g' " y' g' hcn' c' t' t' gñu F / t' p' i " y' q' w' f " dg' 6 " vq " 7 " h' g' v' j' k' j' g' t' " y' cp " y' g' uñg' v { " dñqññ' g' t' c' v' c' dñg " ññgñp'g' c' p' e' j' q' t' g' f " vq " y' g' y' cñlpi " / y' q' tñkpi " uñt' c' e' g " c' p' f " y' g' r' q' v' p' cññ' hñq' " u' y' kpi " j' c' l' ctf u' l' p' l' p' e' t' g' c' u' l' p' }

O c' p' wñc' wñt' g' t' u' cñq " t' g' s' wñk' y' c' v' y' q' t' gñt u' p' q' v' y' q' tññ' c' v' ñg' xñ' y' j' g' t' g' y' g' r' q' l' p' v' qh' u' p' c' j' qññ' c' w' c' e' j' o gpv' vq " y' g' d' q' f { " j' c' t' p' gñu " k' u' c' d' q' x' g' " y' g' f' g' x' l' e' g' d' g' e' c' w' g' " y' k' u' y' kñ' l' p' e' t' g' c' u' g' " y' g' h' g' g' hcn' f' kñc' p' e' g' c' p' f " y' g' f' g' e' g' n' t' c' v' k' p' "

f' kñc' p' e' g' c' p' f " y' kñ' e' c' w' g' " j' k' j' g' t' " hñt' e' gñ " q' p' y' j' g' d' q' f { " l' p' y' g' g' x' g' p' v' qh' c' p' c' e' e' k' f' g' p' v' cñ' hcn' }

O c' p' wñc' wñt' g' t' u' t' g' e' q' o g' p' f " cp " c' p' e' j' q' t' c' i' g' hñt " y' g' j' g' t' g' t' c' v' c' dñg " ññgñp'g' y' j' lej " ku' lo o q' x' c' dñ " hñk' g' f " l' p' u' r' c' e' g' c' p' f " ku' l' p' f' g' r' p' f' g' p' v' qh' y' g' wñt' u' u' w' r' q' t' v' u' f' u' g' o u' 0 C " o q' x' g' cñdñ " c' p' e' j' q' t' c' i' g' ku' q' p' g' y' j' lej " e' c' p' dg' o q' x' g' f " c' t' q' w' p' f " uñej " cu' g' s' wñk' o gpv' q' t " y' j' g' g' r' g' f " x' g' j' k' e' gñ + q' t' y' j' lej " e' c' p' f " g' hñg' v' uñdñc' p' v' cññ " w' p' f' g' t' u' j' q' eññ' c' f' l' p' i " uñej " cu' c " j' q' t' k' qp' v' cñ' ecñdñ " q' t " x' g' t { " hñg' z' kñg " dgco + 0ñk' " y' g' e' c' u' g' qh' c " x' g' t { " hñg' z' kñg " c' p' e' j' q' t' c' i' g' . " c " u' j' q' eññ' c' f " cr r ñg' f " vq " y' g' c' p' e' j' q' t' c' i' g' f' wñkpi " hcn' c' t' t' gñu' e' c' p' e' c' w' g' q' u' e' kñc' v' k' p' qh' y' g' hñg' z' kñg " c' p' e' j' q' t' c' i' g' uñej " y' c' v' y' g' t' g' t' c' v' c' dñg " d' t' cñg " o g' e' j' c' p' l' uo " o c { " w' p' f' g' t' i " q' q' p' g' t' o " o q' t' g' e { eñu' qh' hñqñkpi l' p' u' qñkpi hñqñkpi " ñc' v' e' j' g' v' hñg' e' vñ " w' p' wñt' y' g' c' p' e' j' q' t' c' i' g' f' g' hñg' e' v' k' p' " ku' f' c' o r' g' p' g' f' 0ñk' y' g' t' g' hñt' g. " wñg' qh' c " o q' x' g' cñdñ " c' p' e' j' q' t' c' i' g' l' p' x' qñk' gñ + e' t' k' e' cññ' gñi l' p' o' g' g' t' l' p' i " cpf " uñg' v { " hñc' v' q' t' u' cpf " u' j' q' w' f " q' pñ { dg' e' q' u' l' k' g' t' g' f " c' hñg'f " hñk' g' f " c' p' e' j' q' t' c' i' g' j' cu' d' g' g' p' f' g' v' e' t' o l' p' g' f " vq " dg' l' p' q' v' hñc' uñdñ }

J' q' t' k' qp' v' cñ' ecñdñ " wñg' f " cu' cp " c' p' e' j' q' t' c' i' g' r' t' g' u' g' p' cp " c' f' f' k' k' p' cññ' j' c' l' ctf " f' v' g' " vq " co r ññk' e' c' v' k' p' qh' y' g' j' q' t' k' qp' v' cñ' e' q' o r' q' p' p' v' qh' o c' z' lo wo " c' t' t' gñu' hñt' e' g' " qh' c " hcn' " v' c' p' uo kñg'f " vq " y' g' r' q' l' p' wñt' y' j' g' t' g' y' j' g' j' q' t' k' qp' v' cñ' ecñdñ " ku' c' w' c' e' j' g' f " vq " y' g' uñt' wewt' gñ Vj kñ' co r ññk' e' c' v' k' p' ku' f' v' g' vq " y' g' c' p' i' ñg' qh' u' c' i " qh' c " j' q' t' k' qp' v' cñ' ecñdñ " cpf " ku' o qu' v' u' g' x' g' t' g' hñt' uo cñl'cñpi ñgñ' qh' u' c' i 0ñk' t' c' ecñdñ " u' c' i " c' p' i' ñg' qh' 4 F gñ t' g' gñu' y' j' g' j' q' t' k' qp' v' cñ' hñt' e' g' q' p' y' j' g' r' q' l' p' wñt' qh' ecñdñ " c' w' c' e' j' o gpv' e' c' p' dg' co r ññk' e' g' d { " c' hñc' v' q' t' qh' 37 }

ñc' ku' cñq " p' g' e' g' u' c' t { " vq " l' p' u' cñm' y' g' t' g' t' c' v' c' dñg " f' g' x' l' e' g " x' g' t' e' cñm { " q' x' g' t' / " j' g' c' f " vq " o l' p' lo k' g' u' y' kpi " hcn' / ñc' p' q' dñl' g' e' v' ku' l' p' y' g' y' q' t' gñt' u' u' y' lpi " r' c' vñ " ñc' q' t' y' c' vñ qh' y' g' ecñdñ + j' c' l' ctf q' wñt' uñk' w' e' c' v' k' p' u' g' z' kñc' " 3 + f' v' g' vq " y' g' u' y' lpi . " j' q' t' k' qp' v' cñ' u' r' g' g' f " qh' y' g' wñt " o c { " dg' j' k' j' " gp' q' w' j " vq " e' c' w' g' l' p' wñt { " y' j' gp " cp " q' dñc' e' gñ " l' p' y' g' u' y' lpi " hcn' r' c' vñ " ku' uñt' eññ' d { " g' k' j' g' t' y' g' g' e' cñdñ " vq " y' g' wñt " q' t' y' g' e' cñdñ " 3 + f' v' g' vq " y' g' v' cñ' u' r' x' g' t' e' cñm { hcn' f' kñc' p' e' g " qh' y' g' wñt " o c { " dg' o w' e' j " i t' g' e' c' vñ " y' cp " ññ' j' g' wñt " j' c' f " hñc' p' p' qñ { " x' g' t' e' cñm " " y' k' j' q' wñc' u' y' kpi " hcn' r' c' vñ 0 }

Y' k' j' " t' g' t' c' v' c' dñg " ññgñp'g' q' x' g' t' e' q' pñk' f' p' e' g " o c { " e' c' w' g " y' g' y' q' t' gñt " vq " g' p' i' c' i' g' l' p' " l' p' c' r' r' t' q' r' t' c' v' d' gñ c' x' k' q' t' 0ñk' uñej " cu' c' r' r' t' q' c' e' j' l' p' i " v' j' g' r' g' t' lo g' v' e' t' " qh' c " hñq' t " q' t' l' q' qh' c' v " c' f' kñc' p' e' g " c' r' r' t' g' e' k' cññ { " i t' g' e' c' vñ " y' cp " y' g' u' j' q' t' v' uñt' f' kñc' p' e' g " dg' y' g' gp' y' g' c' p' e' j' q' t' c' i' g' r' q' l' p' v' cpf " y' g' r' g' c' f' l' p' i " g' f' i' gñ / Vj q' wñt " y' g' g' t' g' t' c' v' c' dñg " ññgñp'g' o c { " c' t' t' gñu " c " y' q' t' gñt' uñt' hñt' dñgñt' g' t' g' t' uñt' y' g' cu' hñc' p' c' h'ey " h' g' vñ " y' g' hñgñp'g' o c { " f' t' c' i " cñpi " y' g' g' f' i' g' qh' y' g' hñq' t " q' t' dgco " cpf " u' y' lpi " y' g' y' q' t' gñt " ññgñp'g' j' g' p' f' wño " w' p' wñt' y' g' ñp'g' j' cu' o q' x' g' f " vq " c' r' qukskpl' y' j' g' t' g' y' g' f' kñc' p' e' g " dg' y' g' gp' y' g' c' p' e' j' q' t' c' i' g' r' q' l' p' v' cpf " hñq' t " g' f' i' g' ku' y' g' u' j' q' t' v' uñt' f' kñc' p' e' g " dg' y' g' gp' y' g' q' u' g' " y' q' u' " r' q' l' p' wñt " C' e' e' q' o r' c' p' l' p' i " y' ku' r' g' p' f' wño " u' y' lpi " ku' c " ñy' g' t' kpi " qh' y' g' y' q' t' gñt. " y' k' j' " y' g' c' w' g' p' c' p' v' f' c' p' i' g' t' " y' c' v' j' g' " q' t' uñt " uñt " y' g' o c " x' l' q' g' e' p' vñ " lo r' c' e' vñ " y' g' hñq' t " q' t " u' q' o g' q' dñt' ev' k' p' dgñy 0 }

Vj g' tñkññ' qh' c' ecñdñ " dñt' gñkpi " ku' l' p' e' t' g' c' u' g' f " hñc' ññgñp'g' ku' f' t' c' i' g' f' uñk' g' y' c' u' c' e' t' q' u' i " y' g' t' q' wñt " uñt' c' e' g' q' t' g' f' i' g' qh' c' eqpetg'g' o go dgt' c' v' y' g' u' c' o go q' o gpv' y' c' v' y' g' ññgñp'g' ku' dglpi " uñdñ g' e' g' f " vq " c " o c' z' lo wo " lo r' c' e' vñ ñg' f' l' p' i " f' wñkpi " c " hcn' / Vj g' vñ j' hcn' f' 5 B8 " l' p' o' ecñdñ " l' p' c " t' g' t' c' v' c' dñg " ññgñp'g' j' cu' c " dñt' gñkpi " uñt' gpi y' " qh' hñt' qo " 5222 " vq " 5922 " hñt' 0 }

90 Vj g' e' q' o r' g' v' p' vñr' g' t' u' q' p' 0ñk' y' j' q' e' c' p' " cñg' l' p' vq " c' e' e' q' wñt' y' g' u' r' g' e' kñk' g' f " q' r' g' t' c' v' k' p' u' dglpi " r' g' t' hñt' o g' f " qp " y' ku' r' t' q' l' g' eñ / uñ q' wñt " f' g' g' t' o l' p' gñ " y' j' gp " cpf " y' j' g' t' g " c " f' gñk' p' c' g' f " g' t' g' e' v' t' " e' c' p' p' q' v' wñg " c' r' g' t' u' q' uññ' cññ' cññ' t' gñuñt' uñt' gñt' uñt' o }

D0Uñgñf P' gñ Systems

Vj g' p' c' wñt' g' qh' y' ku' r' c' t' k' e' wñt " r' t' g' e' cñu' eqpetg'g' " g' t' e' v' k' p' " y' q' t' mñk' g' r' t' g' eññ' gñu' y' g' uñg' vñw' g' qh' uñg' vñt' " p' gñu' y' j' g' t' g' r' q' l' p' v' qh' g' t' e' v' k' p' q' t' ñg' c' f' l' p' i " g' f' i' g' y' q' tññ' o wñu' cñgñ " r' ñg' eñ /

30 Vñ l' p' u' cñm " uñg' vñt " p' gñu " l' p' y' g' l' p' v' t' k' q' t " j' k' j' " dc { " qh' y' g' uñkpi ñg' uñt { " r' q' t' v' k' p' qh' y' g' t' dñk' f' l' p' i " r' q' u' gñt' k' i l' p' i " cwcej o gpv' r' t' q' dñgñ uñt' uñt' wewt' cññ' o go dgtu' f' q' p' q' v " g' z' kñc' vñ " y' j' lej " uñw' r' q' t' v' kpi " f' g' x' l' e' gñ " hñt " p' gñu " e' c' p' dg' cwcej g' f " l' p' y' g' t' c' g' c " y' j' g' t' g " r' t' q' g' e' v' k' p' ku' f' g' s' wñk' f' 0 C uñt' y' g' t' g' e' v' k' p' q' r' g' t' c' v' k' p' c' f' x' c' p' e' gñ. " y' g' hñc' e' c' v' k' p' qh' r' q' l' p' v' qh' g' t' e' v' k' p' q' t " ñg' c' f' l' p' i " g' f' i' g' y' q' tññ' e' j' c' p' i' gñu " e' q' p' u' c' p' vñt " cu' g' c' e' j " o go dgt' ku' cwcej g' f " vq " y' g' uñt' wewt' gñ f' vñg' vq " y' ku' e' q' p' u' c' p' vñt' c' p' i' g' l' p' l' p' q' v' hñc' uñdñ " vq " u' g' vñp' g' vñt' u' g' e' v' k' p' u' c' p' f " dñk' f' uñg' r' c' t' vñt' uñt' wewt' gñu' vq " uñw' r' q' t' vñt' g' p' gñu /

40 Vñ g' p' c' wñt' g' qh' y' g' g' t' e' v' k' p' r' t' q' e' gñu " hñt " y' g' r' t' g' e' cñu' eqpetg'g' o go dgtu' ku' uñej " y' c' v' c' p' l' p' u' cñm " p' gñvñ q' wñt " r' t' q' g' e' vñt' q' t' gñt uñt' uñt' y' g' f' " r' qukskpl' cpf " uñg' e' wñt' g' ñpñ { " ñp'g " uñt' wewt' cññ' o go dgt' 0 C hñt " g' c' e' j " o go dgt' ku' uñdñ kñk' g' f " y' g' p' gñvñ q' wñt " j' cxg' vq " dg " o q' x' g' f " vq " c " p' gñy " uñc' v' k' p " ñy' ku' e' q' wñt " o g' c' p' c " o q' x' g' qh' . " vq " 32 hñt " y' g' r' quñdñ kñk' { " qh' c " o q' x' g' vq " c " f' hñt' g' pñt' ñg' xññ' q' t " c' t' g' c " qh' y' g' uñt' wewt' gñ + vq " r' t' q' g' e' vñ y' q' t' gñt uñt " }

" "



r nckpi "y j g"pgzv'r lgeg"lp"y j g"eqpntwckp"ugs wgep0Vj g'tguwn'y qwf "dg"y j g"lpuncwckp"cpf "f kuo cpvki "qhi'uchgv"pgu'tgr gcvgf n"y j tqwi j qw'y j g"pqto cni y qtni f c'0'Cu"y j g"lko g"pgeguact {"q"r quiskqp"cpf "ugewg" c'r tgecu' eqpetgvg"o go dgt. "y j g"gzr quw'g"lko g"lqt"y j g"y qtnig"lpuncmki "y j g"uchgv"pgv' y qwf "dg'het"npi gt'y cp'ht"y j g"y qtnig'u'y j qo "y j g"pgv'ku'lp'pgpf gf "q"r tqve0Vj g"lko g"gzr quw'g'tgr gcuv'kuh'g'cei "lko g"y j g"pgu'cpf "uwr r qtvki "y j ctf y ctg" o wu' dg" o qxgf "n'egcmf" qt "w' y ctf "q" r tqxkf g" r tqveckp" cv' y j g" r qlpv' qh' gtgeckp'qt'ngcf lpi "gf i g0

50U'U'lev'lpvgr tgeckp"qh'E3: 480/24"e"i tgs wktu"y j cv'qr gteckpu"uj cni'pqv' dg" wpf gtcngp"wpki'y j g"pgv'ku'lp"r nceg"cpf "j cu'dggp"vguf 0'Y kj "y j g" r qlpv' qh' gtgeckp'eqpuncpni'ej cpi lpi .y j g"lko g"pgeguact {"q"r quiskqp"cpf "ugewg"y j g"eqpetgvg" o go dgt0

60Wug'qh'uchgv"pgu"qp"gzr qugf"r gto gvg"y cni'qr gplpi u"cpf "qr gp"ukf gf "hqtu'ecwug'c'wce' o gpv'r qlpv'q'dg'igh'lp'c'tej kgewcn'eqpetgvg'y j lej "o wu' dg'r'cvej gf"cpf "hngf"y kj "o cvej lpi "o cvgt'cn'chgt"y j g'pgv'uwr r qtvki "y j ctf y ctg" ku'tgo qxgf 0'lp'q'gf gf "q"r'cvej "y j g'ug'qr gplpi u'cf f kskp'cn'pwo dgtu'qh'go r nq{ggv' o wu'dg'uw' gpf gf "d{"uy lpi "lnci gu'dq'cu'y ckp'ej cku'qt"q'j gt'f'g'xlegu"y j gtd{"lp'etgcvki"y j g'go qwpv'qh'hm'gzr quw'g"lko g"q'g'go r nq{ggv'0

60U'puncmf'uchgv"pgu'r qug'cp'cf f kskp'cn'j c' ctf "cv'y j g'r gto gvg'qh'y j g'tgevgf" utwewg"y j g'tg'iko ksf "ur ceg'ku'cxck'cdng"lp"y j lej "o go dgtu'ecp"dg'wtpgf" chgt' dgkpi "r'kngf"htgo "y j g"i tqwgf "d{"y j g"etcp0Vj g'tg'y y qwf "dg" c"j ki j "rtqdcclki"y j cv'y j g"o go dgt' dgkpi "r'kngf"eqwaf "dgeo g" gpwci nfg"lp"pgv' j ctf y ctg'ecdn'ug'0

60Vj g'wug'qh'uchgv"pgu'y j g'tg'utwewtcni' cni'rcpni'ctg'dgkpi "gtgevgf"y qwf "rtgxgpv'o qxgo gpv' qh'rcpni'q" r qlpv'qh'lpuncwckp0Vj dg'gh'gevg"pgu' y qwf "pgeguactn"j c'xg"q"r tqxkf g'r tqveckp'cetquu'y j g'ctgc"y j g'tg'utwewtcni' uwr r qtvki "y cni'rcpni'y qwf "dg'ugv'cpf "r nwo dfg "dgh'gt"tqhi'wpku'eqwaf "dg" r nceg'0

70Wug'qh'c"qy gt'etcp'ht'y j g'tgeckp'qh'y j g'j ki j "lkg'r qtvckp'qh'y j g'utwewg" r qugu'c'r ct'wewt"j c' ctf "lp"y j cv'y j g'etcp'qr gtcvqt'ecppqv'ug'qt"lwf i g'y j g'r tqzko k{"qh'y j g"nqf "lp'tgeckp"q"y j g'utwewg"qt"pgu'0'k'i"y j g"uki pcngt"ku' nqkpi "y j tqwi j "pgu" cpf "uwr r qtvki" utwewtcni' f'g'xlegu"y j k'g" i k'kpi "lpuncwckpu" q"y j g"etcp'qr gtcvqt."k' ku'pqv' r quidng"q" lwf i g"r tgekg' tgeckp'uj l' u'dgy ggp'y j g'htcf"cpf "y j g'utwewg'kuh'gt"q"pgu'cpf "uwr r qtvki" utwewtcni'f'g'xlegu'0Vj ku'eqwaf "ecwug"y j g'htcf"q'dgeo g'gpwci nfg"lp"y j g'pgv'qt" j k'y j g'utwewg'ecwulpi "r qvcp'nci co ci g0

**E0I wctftclU'ugo u'**

Qp"y j ku' r ct'wewt"y j qtmksg."i wctftclm" d'etlecf gu"tqr gu."ecdn'qt"qv j g'r gto gvg"i wctftclm" f'g'xlegu"qt"o g'y qf u"qp"y j g'gtgeckp"htqt"y kmi' r qug' r tqdgo u"q"uchg'gtgeckp"r tqegf wgu."f'k'ecm"."c"htqt"qt"tqhi'ku'gtgevgf"d{"r nckpi "6"q"32"n'y k'f g'utwewtcni' o dgtu'p'gzv'q'q'p'cpq'j gt'cpf "y g'f lpi "qt" i tqwki "y j g"q'j gt'0Vj g'r gto gvg'qh'c'htqt"cpf "tqhi'ej cpi gu'gcej "lko g'c"pgy "o go dgt'ku' r nceg'lp'qv't quiskp0'k'ku'wptgcup'cdng'cpf "k'k'wcm"lo r quidng"q"gtgevg' wctftclm'cpf "q'g'dqctf u'cv'y j g'g'xgt'ej cpi lpi "ngcf lpi "gf i g'qh'c'htqt"qt"tqhi'

30Vq"r quiskqp" c"o go dgt"uchn{"k"ku'pgeguact {"q"tgo qxg"cn'q'q'utwewckpu'gzv'p'f lpi "cdq'xg"y j g'htqt"ng'gn'pgct"y j g'r qlpv'qh'gtgeckp0Uwe j "c"r tqegf w'g'cmny u'y qtnig'u'q'uy lpi "c'pgy "o go dgt'cetquu'y j g'gtgevg'utwecg'cu'pgeguact {"q"r quiskp"ku'r qtr gtn"y j k'j qw'y qtt lpi "cdq'w'npqenpi "o cvgt'cn'qhi'qh'y ku'utwecg'0

J qmny "eqtg"urcd"gtgeckp"qp"y j g"o cuqpt {"y cni'tgs wktu"lpuncwckp"qh'y j g'r gto gvg'r tqveckp"y j g'tg'y j g'o cuqpt {"y cni'f'cu'q'dg'eqpntwewg'0Vj ku'o gcpu' y j g'i wctftclm'lpuncmf"y j g'p'umdu'g'wgn"y j g'go qxgf "q"eqp'p'w"y j g"o cuqpt {"eqpntwewckp0Vj g'gtgevg' y kmi'dg'gzr qugf "q" c'hm'f j c' ctf "ht'c'ni'pi gt' r g'rtkf "qh'lko g'y j k'g'lpuncmki "cpf "tgo qxkpi "r gto gvg'r tqveckp"y j g'p' y j k'g'gtgeckp"y j g'urcd'0

kp"j qmny "eqtg"y qtn'0'cu'lp"qv j g'r tgecu'eqpetgvg'gtgeckp."qv j gtu'ctg"pqv' f'k'ecm'qp"y j g'y qtnif'geni'wpki'y j g'r tgecu'eqpetgvg'gtgeckp"ku'eqo r ngv'0Vj g'f'geni'ku'pqv'eqo r ngv'wpki'y j g'ng'g'pki . "cni'pki . "cpf "i tqwki "qh'y j g'ltq'ku'f'apq'0'k'ku'pqto cni' tcew'g'q'ng'g'qv j gtu'qhi'y j g'f'geni'wpki'c'v'ng'cu'y j g'p'gzv'f'c {"chgt' y j g'lpuncwckp"ku'eqo r ngv'q'cmny "y j g'itq'w'q'j ctf g0

**OSHA Standards for the Construction Industry**

40Vj g'tg'ku'pq"r gto cpgpv'dqwpf ct {"wpki'cni'utwewtcni' o go dgtu'j c'xg"dggp" r nceg'lp"y j g'htqt"qt"tqhi'0'c'v'y j g'ngcf lpi "gf i g'0'y qtnig'u'ctg'qr gtcvki "cv'y j g'vgo r qctct {"gf i g'qh'y j g'utwewg'cu'y j g' y qtni'q"r quiskqp"y j g'pgzv'o go dgt'lp"y j g'ugs wgep0Ego r nceg'p'y kj "y j g'ncpf ctf "y qwf "tgs wktg" c'i wctftclm'cpf "q'g'dqctf "dg'lpuncmf"cnpi "y j ku'gf i g'0'J qy g'xgt."y j g'r tgeup'eg'qh'uwe j "c" f'g'xleg"y qwf "rtgxgpv'c"pgy "o go dgt'htgo "dgkpi "uy wpi "q'xgt"y j g'gtgevg'utwecg'ny "gpqwi j "q"cmny "y qtnig'u"q'eqp'q'ku'uchn" f'w'kpi "y j g'r quiskp'pi "r tgegu'0'htv'gt'0'y g'ug'go r nq{ggv'q'w'f"j c'xg'q'q' y qtni'y tqwi j "y j g'wctftclm'q'c'k'p'y j g'pgy "o go dgt'cpf "eqppgevk'q"y j g'utwewg'0Vj g'j wctftclm'y qwf "pqv'r tqveckp" go r nq{gg' y j q' o wu'ngcp"y j tqwi j "ku'q'f'q"y j g'pgeguact {"y qtm'tc'y gt "ku'y qwf" j lpf gt"y j g'go r nq{gg'q'uwe j "c'f'gt'gg'y cv'c'i tgevg'j" c' ctf "ku'etgevgf"y j cp'ku'y j g"i wctftclm'y gt'cdug'p0

50I wctftclm'g'wkt go gpw'r qug'c'j c' ctf "cv'y j g'ngcf lpi "gf i g'qh'lpuncmf'htqt"qt"tqhi'ugeckpu'd{"etgeckp"y j g'r quidk'k'k' "qh'go r nq{ggv'dgkpi "ecwi j v'dgy ggp" i wctftclm'cpf "uwr gpf gf "nqcf u'0'Vj g'ncni'qhi'c'engct"y qtni'ctgc"lp"y j lej "q" i wktg"y j g'uwu' gpf gf "nqcf "lp'q"r quiskqp'ht' r nceg' gpv'cpf "y g'f lpi "qh'o go dgtu'lp'qv'j g'g'z'k'kpi "utwewg'etgecv'ku'hm'ht'v'gt'j c' ctf u'0

60Y j g'tg'gtgeckp"r tqegung' tgs wktg"r tgecu'eqpetgvg'utw'c' y u'qt"qr gplpi u"q"dg'lpuncmf"cu'cp'kp'v' tcn'r ct'v'qh'y j g'q'xgt'cn'gtgeckp"r tqegung'0'ku' o wu'cnq"dg'tgeq'pk'gf "y j cv'i wctftclm'qt"j c' ctf tclm' o wu'pqv'r tq'gevg'cdq'xg"y j g'utwecg'qh'y j g'gtgeckp"htqt'0'Uwe j "i wctftclm'uj qwf "dg'vgo k'p'v'cv'y j g'ng'gn'qh'y j g'gtgeckp"htqt"q"cxkf"r nckpi "j c' ctf qwu'qdu'nc'gu'lp"y j g'r cv'j "qh'c"o go dgt'dgkpi "r quiskp'pf 0

**V. OTHER FALL PROTECTION MEASURES CONSIDERED FOR THIS JOB**

Vj g'hmny lpi "ku" c" Nuv"cpf "gzr ncpvckp'qh'qv j g't'hm' r tqveckp"o gcuw'gu'cxck'cdng'cpf "cp'gzr ncpvckp'qh'ko kcv'ku'p'ht'wug'qp"y ku'r ct'wewt'lqdu'k'g'0'k'i' f'w'kpi "y j g'eqw'ug'qh'gtgeckp"y j g'dw'kf lpi "y j g'go r nq{gg'ug'gu'cp'ctgc"y j g'eqwaf"dg'gtgevgf"o q'tg'uchn" d{"y j g'wug'qh'y j g'ug'hm' r tqveckp"o gcuw'gu"y j g'htgo cp'uj qwf "dg'p'q'w'k'f'0

C0Uechh'nf u'ctg'p'qv'wug'f'dgecwug<

30Vj g'ngcf lpi "gf i g'qh'y j g'dw'kf lpi "ku'eqpuncpni'ej cpi lpi "cpf "y j g'uechh'nf lpi "y qwf "j c'xg"q"dg"o qxgf "cv'xgt ("tgs wgp'p'v'gt'c'ni'0'Go r nq{ggv'gtgeckp"cpf "f'kuo cpvki "y j g'uechh'nf lpi "y qwf "dg'gzr qugf"q"hm'f j c' ctf u'ht" c"i tgevg'r npi j "y qh' lko g"y j cp"y j g'f"y qwf "d{"o g'g'nf "gtgeckp"y j g'r tgecu'eqpetgvg"o go dgt0

40C"uechh'nf "qy gt"eqwaf"lp'v'htgt"y kj "y j g'uchg'uy lpi lpi "qh'c"nqcf "d{"y j g'etcp'0

50Rqy gt'k'p'gu'0'gt'cl'p'cpf "k'g'f'q'p'qv'cmny "ht"y j g'uchg'wug'qh'uechh'nf lpi 0'D0X'g'k'eng'o qwp'v'f'r n'v'htgo u'ctg'p'qv'wug'f'dgecwug<

30C"x'g'k'eng'o qwp'v'f'r n'v'htgo "y kn'p'qv't'gcej "ct'gu'qp"y j g'f'geni'y cv'ctg'gtgevgf"q'xgt'q'j gt'ht'x'g'nm0

40Vj g'ngcf lpi "gf i g'qh'y j g'dw'kf lpi "ku'uwcm"q'xgt'c'ny gt'ht'x'g'nf'qh'y j g'dw'kf lpi "cpf "y ku'ny gt'ht'x'g'ny kn'p'qv'uwr r qtv'y j g'k'j v'qhi'c'x'g'k'eng'o qwp'v'f'r n'v'htgo 0'50C"x'g'k'eng'o qwp'v'f'r n'v'htgo "eqwaf"lp'v'htgt"y kj "y j g'uchg'uy lpi lpi "qh'c"nqcf "d{"y j g'etcp'g'k'aj gt'd{"y j g'etcp'g'uy lpi lpi "y j g'htcf"q'xgt'qt'lp'qv'j g'g'w'k' o gp'0

60Rqy gt'k'p'gu'cpf "uwt'qwpf lpi "uksg"y qtni'f'q'p'qv'cmny "ht"y j g'uchg'wug'qh'c"x'g'k'eng'o qwp'v'f'r n'v'htgo 0'E0E'etcp'g'uwu' gpf gf "r gtu'pp'gn'r n'v'htgo u'ctg'p'qv'wug'f'dgecwug<

30C"ugeqpf "etcp'g'eng'g'p'qwi j "q"uwu' gpf "cp{"go r nq{gg'lp'v'j g'y qtni'pi "cpf"gtgeckp"ctgc"eqwaf"lp'v'htgt"y kj "y j g'uchg'uy lpi lpi "qh'c"nqcf "d{"y j g'etcp'g"j q'k'kpi "y j g'r tqf wv'v'q'dg'gtgevgf 0

40Rqy gt'k'p'gu'cpf "uwt'qwpf lpi "uksg"y qtni'f'q'p'qv'cmny "ht"y j g'uchg'wug'qh'c"ugeqpf "etcp'g'qp"y j g'lq'd0



## Fall Protection

### XKOGP HQTEGO GP V"

Eqpvcv'cy ctgpgui'qh'cpf "tgr gev'ht'hcml'j c| ctf u'opf "eqo r nlcpeg"y kj "cm' uchgv " t wgu" ctg" eqpuk'gtgf" eqpf'kqpu" qh" go r nq{o gpv' Vj g" lqduksg" Uwr gtlpgpf gpv'cu'y gni'cu'lpf'kskf'wcn'lp"y g"Uchgv' "cpf "Rgtuoppgn'F gr ctvo gpv" tguxtg" yj g" tli j y" vq" kuug" f'kuek'npct ("y ctplpi u" vq" go r nq'ggv' w" vq" cpf " lpenf'kpi 'vgo lpcvqp. 'ht'f'kwtg'q'hmny 'y j' i' wkf'gripu'qh'y ku'r tqi tco 0'

### XKOCEEKF GP V"RP XGUVK C VQVP U"

Cni'ceek'gpu'yj cv'tguw'lp'lpw {"v'y qntngu'ltgi ctf'ngu'qh'yj gkt'pcwt'g'uj cni'dg" lpxguki cvgf" cpf "tgr qtvf 0' K' ku' cp" lpxgi tcn' r ctv' qh' cp {" uchgv " r tqi tco " yj cv' f qewo gpvcvqp'vcng" r nceg"cu'uqpp"cu'r quikdg"uq"yj cv'yj g'ecwag"cpf "o gcpu'qh' r t'gxgpvqp'ecp'dg'kf'gp'ht'gfv "vq'r t'gxgpv'c't'gqewtt'gpeg'0'

Kp" yj g" gxgpv' yj cv' cp" go r nq {gg" hcm' qt" yj gtg" ku' uqo g" qv' gt" t'grcvf 0' ugtkpw' lpek' gpv' qeewtt'kpi 0' yj ku' r ncp" u'j cni' dg" t'gxhgy gf " vq" f'gvgto lpg' k' c'f'k'kqpcn' r tceveg'u. "r tqegf wgu" qt" v'clpki " pggf " vq" dg" lo r ngo gpvgf " vq" r t'gxgpv' uko k'ct " v' r gu'qh' hcm' qt' lpek' gpw' h' t' qo " qeewtt'kpi 0' "

### XKKOEJ CPI GU'VQ'RNCP "

Cp {"ej cpi gu'vq" yj g" r ncp" yj k'ni'dg" cr' r tqxgf " d {" pco g" qh' yj g" s'w'ht'gfv " r gtuqp-0' Vj ku' r ncp" u'j cni' dg" t'gxhgy gf " d {" c" s'w'ht'gfv " r gtuqp" cu' yj g" lqd" r tqi t'guugu" vq" f'gvgto lpg' k' c'f'k'kqpcn' r tceveg'u' r tqegf wgu" qt" v'clpki " pggf u" vq" dg" lo r ngo gpvgf " d {" vj g" eqo r g'g'p'v' r gtuqp" vq" lo r tqxgf " qt" r tqxkf " g" c'f'f'k'kqpcn' hcm' r tqegvqp'0' Y qntngu' u'j cni' dg" p'q'ht'gfv " cpf " v'clpki " k' p'g'g'g' uct ("0' kp" yj g" pgy " r tqegf wgu'0' C' eqr {" qh'y ku' r ncp' cpf " c'ni' cr' r tqxgf " ej cpi gu' yj cni' dg" o c'p'k'v'clpki " cv' yj g' lqduksg'0' "

#### Sample Fall Protection Plan for Residential Construction

#### (INSERT COMPANY NAME)

Vj ku'Hcm'Rtqgevqp'Rncp'Ku'U' gektie'Hqt'Vj g'Hjmqy kpi 'Rtqlgev'

Nqecvqp'qh'lq'd'aa"

Fcv'g'Rncp'Rtr'ctgf'qt'0' q'ht'gfv "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

Rncp'Rtr'ctgf'D{"aa"

Rncp'Cr'r tqxgf'D{"aa"

Rncp'Uw'gtxkgf'D{"aa"

Vj g" hmny kpi " Hcm' Rtqgevqp' Rncp' ku' c" uo r n'g" r tqi tco " r t'gr'ctgf " hqt" yj g" r t'gxgpvqp' qh' l'p'w'kgu' cuqekcvf " y kj " hcm'0' C" Hcm' Rtqgevqp' Rncp' o wuv' dg" f'gxgnr'gf " cpf " g'x'ncv'gf " qp' c' u'kg' d {" u'kg' d'cu'0' k' ku' t'geqo o gpf'gf " yj cv' d'w'kf' gtu' f'kuevuu' yj g'y t'k'g'p' Hcm' Rtqgevqp' Rncp' yj kj " yj gkt' Q'U' C' C'tgc' Q'ht'gfv " r tqi' vq" i q'kpi " qp' c' lqduksg'0' "

#### I. STATEMENT OF COMPANY POLICY

\*l qwt'eqo r cp {" pco g'j gtg+ku'f'gf'kecvf "vq" yj g'r tqgevqp'qh'ku'go r nq {ggv'ht'qo " qp/yj g'lqd' l'p'w'kgu' Cni' go r nq {ggv' qh' \*l qwt'eqo r cp {" pco g'j gtg+ " j cxg" yj g" t'gr'qpuk'k'k' {" vq" y qtn' uchgv " qp" yj g" lqd' Vj g" r w'rq' qh' yj g" r ncp' ku' vq" uwr ngo gpv' qwt' g'z'k'k'p' uchgv " cpf " j gcnj " r tqi tco " cpf " vq" g'p'w'g" yj cv' g'xgt (" go r nq {gg' yj j q' y qtn' hqt' \*l qwt'eqo r cp {" pco g'j gtg+ t'geqi p'k' gu' y qtn' r'ceg' hcm' j c| ctf u'cpf "cngv' yj g'cr r tq' t'k'v'g' g'cuw'gu'v' c'f'f' t'gu' yj q'ug' j c| ctf u'0' "

Vj ku'Hcm'Rtqgevqp'Rncp' c'f'f' t'guugu' yj g'wug' qh'eqpxgpvqp'cni' hcm' r tqgevqp' cv' c" pwo dgt' qh' ctgeu' qp" yj g' r tq'geu'0' cu' y gni' cu' k'f'gp'w'kgu' ur gektie' cev'k'k'kgu' yj cv' t'gs'v'k'g' p'qp'eqpxgpvqp'cni' o gcpu'qh' hcm' r tqgevqp'0' F'w'kpi " yj g'eqp'w'v'k'p' qh' t'guk' gp'v'k'ni' d'w'kf' kpi u' w'p' gf "6: " h'ggy'lp" j g'k' j v'0' k' ku' uqo g'ko gu' l'p'g'cuk'dg' qt' k' s' et'g'v'c' " i t'g'c'v'g' j c| ctf " vq" wug'eqpxgpvqp'cni' hcm' r tqgevqp' u' ugo u' cv' ur gektie' ctgeu'qt' hqt' ur gektie' c'um'0' Vj g'ctgeu'qt' c'um'0' c {" l'penf' g' d'w'ctg' p'q'v'it' k'gf "vq' c' c'0' U'g'w'kpi " cpf " d'ce'kpi " qh' t'q'q' h' v'w'gu' c'p'f " t'ch'ng' u' "

d'0'K'puc'ncvqp'qh'ht'q' yj g'cv' kpi " cpf " l'q'ku'w' "

e'0' T'q'q' h' yj g'cv' kpi " q' r g' t'c'v'k'p' u' c'p'f " "

f'0' C' t'g'v'kpi " g'z'v'g'k'q' yj c'ni'0' "

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[illegible]

Qp'cm'y cmu'gk i v'hgg'vt'nguu'y qntngu'y kni'lpucm'lpvktqt'uechthf i'ncupi 'y'g  
 lpvktqt' y cm' dnguy 'y'g' nqecvqp' y j g'g' y'g' v'wauugukthgu't y kni' dg' g' g'vge'0'  
 ucy j qtu'uechthf i'equputwef'qh'68'p'ej' ucy j qtu'up'f'4z'w'2' n'p'm'y kni'ghp'  
 cm'y' y qntngu'q' dg'g'xv'f' y k i j' p'p'w i' g' cm'y' hqt' y'g' g' g'vge'qp' qh'v'wauug'cp'f'  
 tchgu't q'k q'w'y qm'p i' p'p' u'g' g' k' r'v'g' h'g' y' g' y' cm'y

kʰɔ̃ˈntvewɪguˈɪj cɪˈv j cɪxɡˈɪj cɪmɪˈj kɪ j ɡtˈɪj cɪpˈ glɪ j vˈ hɛɡvˈ cɪpˈ j j ɡtɪɡˈ ɟ j ɡˈ wʉɡˈ qhˈ  
uechɪqɪr uˈ cɪpˈ ˈnɛf ɡtuˈɪj qwɪˈ etɟeɡvˈ cˈɪ tɟeɡvˈ j cɪ cɪfˈ ˈuehɟˈ y qɪnɪpɪˈ r tɟeɡf wɪɡuˈ  
j kɪnˈ dɛˈ wɪkɪ ɡfˈ j j ɡpˈ j qɪnɪpɪˈ cɪpˈ ɟ j ɡˈ qɪrˈ r nɛvɟˈ cɪpˈ j j kɪnˈ dɛˈ o ɪpɪkɪ ɡfˈ dˈ ɟ j ɡˈ  
etɟˈ ˈuwr ɡtɪxɪktʰɔ̃ˈF wɪpɪˈ cɪnˈ uciˈ qɪnˈ qɪnˈ vɪwɪlɪ chɛɡˈ ɡtɟeɪvɪpˈ ɟ j ɡˈ ucdɪkɪsˈ ˈqhˈ j ɡˈ  
vɪwɪlɪ chɛɡˈ ɟ j kɪdɟˈ ɪpɪwɟˈ ɡfˈ cˈvɪnɪwɪ ɡuɪˈ

\*ŋ qwʰeqo rcp(ʰpco g)j gtgʷuj cniʷcngʷj gʷhmqny kpi ʰuŋr ʷvqʰr tqgveʷv y qntngtuʰ  
y j qʰctgʷgʷzr qugʷʰvqʰhcnjʰj c|ctf ʷv y j kngʷy qtnkpi ʰhʷqo ʷj gʷvqʰr r ʰcngʷkpuwcnkpi  
ʷvʷuugultcngtuʰ

•ÁQpn( 'y g'hqmy lpi 'tckpgf'y qtngtu'y kn'dg'cmqy gf "q'y qtnlqp'y g'q'r 'r nvg'  
f wtkpi 'tqqh'twuu'qt'tchngt'kpuncn:vkqp<

aa"

[illegible][illegible]

•ÁY qtngrtu"uj cm"j cxg"pq"qy gt"f wkgu"vq"r gthqto "f wtkpi "vwuultchgt"gtgevkp"  
r tqegf wtgu="

• ÁCm'twugultchgtu'y kn'dg'cf gs wcvn{ "dtcegf "dghqtg"cp{ "y qtngt"ecp"wug"y g"  
 vwuultchgt "cu'c"uwr r qtv<"

•ÁY qtngtu" y km" tgo clp" qp" yj g" vqr" r rrvg" wulpi" yj g" rtgxkqwn{ " ucdklk gf" vwuultchgt"cu"cuwr r qtvj y krg"qvj gt"vuwugultchgtu"ctgdgkpi"gtgevgf <"

•ÁY qtingtu'y knhgxcg'j g'ctgc'qh'j g'ugewt'gf "twuugu'qpn('y j gp'k'ku'pgeguuct ('q"  
ugewt'g'cpqj gt "twuul'chgt="

•Á Vj g<sup>h</sup>ku<sup>v</sup>y q<sup>t</sup>wu<sup>g</sup>ul<sup>ch</sup>gtu<sup>y</sup> kn<sup>d</sup>g<sup>u</sup>gv<sup>h</sup>qo "n<sup>f</sup>f<sup>g</sup>tu<sup>h</sup>gc<sup>p</sup>k<sup>p</sup>i "qp<sup>u</sup>k<sup>g</sup>y cmu<sup>c</sup>v<sup>r</sup>  
r<sup>q</sup>k<sup>p</sup>u<sup>v</sup>y j<sup>g</sup>g<sup>t</sup>v<sup>j</sup> g<sup>y</sup> cmu<sup>e</sup>c<sup>p</sup>u<sup>w</sup>r r<sup>q</sup>t<sup>v</sup>j g<sup>y</sup> g<sup>k</sup>i j<sup>v</sup>q<sup>h</sup>v<sup>j</sup> g<sup>n</sup>f<sup>f</sup>g<sup>t</sup>=<sup>c</sup>p<sup>f</sup>"

•ÁC"y qtngt"y km'enlo d"qpq"vj g"kpvtkt"vqr"r mvg"xlk"c"mffgt"vq"ugewt"vj g"  
r gcmi"qh"vj g"htuv"y q"twaugult chgtu"dgkoi"ugw'

Vj g" y qtngtu t'gur qpukdn' hqt" f' gcej lpi" v'wau'g' h'qo" e'tcpgu' cpf kqt" ugewt' lpi" v'wau'g' cv'j' g' r' gcm' v' t' cf k'kqpcmt' 'ctg' r' quksk' p'gf' cv'j' g' r' gcm' q'h'j' g' t' wau'g' u'lt' chgtu'0  
Vj g't' c't'g' cm'q' u'kwsw' k'qpu' y' j' g't' y' qtngtu' ugewt' lpi" t'ch'gtu' q' k' t' g' d'gco' u' y' km' d'g'  
r' quksk' p'gf' q'ur' q'h'j' g' t' k'f' i' g' d'gco' 0

\*l qwʰeqo rcpʰ | ʰpco gʲ | gtgʷ | uʲ cni ʷcngʷ | yʲ gʲ hqnyʲ kpi ʰuʲgr uʲ | qʰ r tʰqevʷ y qʰtngʷ |  
y j qʰ ctgʷ gʷzr quʲqʷ | ʰqʰ tʰniʲ | c | ctʰ uʲ y j kʷ ʰgɛwʰ kpi ʰtʷuʲgʷlctʰgtʷ | cʷ yʲ gʲ r gʷcniʰhʷ | gʲ |  
tʷuʲgʷlctʰf | gʲ dʷco <

•ÁQpn "y g" hmqy lpi "vclpgf "y qtngtu"y knl dg" cmqy gf "q"y qtnl cv" y g" r gcnl  
f wklpi "tqqh"twu"qt tchgt "kpuvncvqp<

[illegible][illegible][illegible]

- Á Qpeg'wuu'qt' t'chg' t'pucncwq' dgi kpu'f y qtngtu'pq'v' kpxqkxg' k'p'v'j cv'cewkw' u'j cm'p'qv'ncp'f'qt' y cm'ldgny' qt'cf' lceggv'q'j' g' t'q'q'h'qr' g'p'k'p' qt'gz'vgt'qt' y cm' k'p'cp'f' ct'cg'v' j' gt'g'v' g'f' eqw'f' dg'w'nt'w'nd'f' t'cnk'p' 'nd'lgwu'<

•ÁY qtnḡtu"uj cml'j cxg"pq"qyḡt"f wḡu"y cp"ugewlpi ldtcelpi "yḡt"waugultkf i g"  
dgco ="

\*ÁY qntgrtu'r qukskpgf 'cv'j' g'r gcmu'qt'kp'j' g'y gdu'qh'twauu'qt'qp'qvr'qh'i'j' g' tki' g'dgo 'uj' cmf'y qtm'i'tgo 'c'ucndgr'r qukskp0'gloj'gt'd'i' 'ukskpi' 'qp'c'Škf'i' g' ugcvŠ' qt' qy' g' gs wkcrep'v' uwt'ceg' 'j' cv'r' r tqxkf'gu' cf f'klkcp'r ucdkšk' 'qt' d'i' r qukskplpi' 'j' go ugrxgu'lp' r t'gkxkwu' 'ucdkkf' g' twauuq'chgtu' cpf' r'gcpłpi' kpa'cpf' t'ceci' /po' 'j'i' tawi' i' j' g' twauuq'chgtu'.

•ÁY qtnḡtu'uj cm'pqv'tgo clp'qp'qt'kp'vj g'r gcm'tkf i g'cp {"ḡpi gt'vj cp'pgeḡuact {"vq"  
uchn' "eqo r ḡvḡ'vj g'vcun'}

*Tqqh'Uj gc vj kpi 'Qr gt c wkp u'*

Y tqngtu' v rkecm' kpuvni' tqqlh' uj ge'j kpi' chgt' cni' vtuugulkcgtu' cpf' cp' rgtog cpgvv' tu'v dteclpi' ku'lp' rneeg' Tqqlh' utv wewgtu' gc'j vpuvncd' wpxi' ugo' g' uj ge'j kpi' ku'lpuvgc' .uu' y tqngtu' kpuvni' tqqlh' uj ge'j kpi' 'ecppgv' d'g' r tqvegv' h'qo 'hcnj' c' ctf u'd' 'eqpxgpv' kpcif' hcnj' tqvegv' u' ugo' u' wpxi' ku'lp' gvgto' kpg' y' cv' y' g' tqqlh' u' u' ugo' 'ecp' d'g' wuf' cu' cp' qtcj p'ei' q' r qkp' C'v' y' cv' r qkp' u' g' r m' j' g' u' c' m' d' r' tqvegv' d' c' t' g' u' p' u' p' c' i' n' t' t' g' u' u' u' g' o' 0

Vtwaugulictgnt'ctg'wdlgeiv'q'eqnrc'ug'hic'y'qtmgt'fcm'y'j'kg'cv'cej'gf'v'q'c'ulpi'q'  
v'wuf'y'ksj'c'dgmw'ictpgu0P'gw'eqwf'cmq'ecwag'eqnrc'ug.'cpf'y'gtg'ku'pqr'r'ceg'q'  
cwcej'i'wctf'tcm0"

Cm' y qntngu' y kn' gpuwt' g' y cv' y g l' "j cxg' ugewt' hq' wpi " dgh' t' g' y g l' " cwgo r v' w' y  
y cm' qp' y' g' u' j gcy kpi . " kpenw' kpi " engcplpi " u' j qgukdqwu' qh' o w' " qt' qy' gt' urk' " y  
j c' ctf u0"

Vq'o k'p'o k'g'y g'w'o g'y q'tngtu'o wu'dg'g'zr qugf "q" c "h'm'j c| ctf." o cvgtk'm'y k'm' dg'uci gf "q" c'm'y 'h't'j g's w'eng'u'k'p'uc'm' k'q'p'q'h'uj g'cy k'p'i 0"

\*[ qw"eqo r cp{ "pco g"j gtg+"uj cm'cng"j g"hmuy kpi "uogr u"q"rtqgev'y qtngtu"  
y j q"ctg"gzr qugf "q'hcmj c| ctf u'y j kg'kpuemkpi 'tqqh'uj gcy kpi <

• Á Qpeg"tqql'uj gcj kpi "kpucm'vqp"dgi kpu."y qtngtu"pqv'kpxqk'gf "kp'y cv'ce'xk'w' "uj cm'lpqv'ucpf "qt'y cm'idgm'y "qt'cf'lc'egpv'q'y g'tqql'qr gpkpi "qt'gz'v'k'qt'y cm'

- *Á* Vj g"eqo r gvgpv'r gtuq'uj cni'f gvgto kpg'jy g'rk'o ku'qhi'jy ku'tc'gc. 'y j kej 'uj cni'fdg' engctn'eqo o wplecvg'vq'y qtingtu'r tktq'vq'r ncego gpv'qhi'jy g'hkuv'r kgeg'qhi'qqhi'uj gcvj kpi <"

•Á Vj g'eqo r gvgpv'r gtuqp'o c{ "qtfg't'y qtmíqp'yj g'tqqh'q"dg'uwur gpf gf "hqt'dtgh'  
r gthqf'u'cu'pgeguuct{ "q"cmqy' qvj g't'y qtingtu'vq'r cuu'y tqwi j "uwej'ctgcu'y j gp'  
y ku'v qwf "pqv'etgcv'c'i tgcvt'j c ctf <"

• Á Opnf "s wcnk hgf "y qtngrtu"uj cmkpuvcmtqgh"uj gcvj kpi ="

•Á Vj g"dqwqo "tqy "qh'tqqh"uj gcvj kpi "o c { "dg"kpucmgf"d{ "y qtngtu"ucpfl kpi "kp  
vuu"y gdu="

\*Á Cngt 'j g' d'wqwo 'tqy 'qh'tqqh'ij gcjv kpi 'ku'kpucnc'f. 'c'urk' g' i wctf 'gz'vfp kpi 'j g'y kf y 'qh'y g'tqqh'ij cni'dg'ugew'gn' 'cwcej gf 'tq'y g'tqqh'Urk' g' i wctf 'u'et'g'v' d'g'eqpwt'vctf 'qh'pq'ngu' y cp'pqo kpcn'6S' j gk j v'ecr cndg' qh'ho kkp' i 'j g' vpeqpt'qng' 'urk' g'qh'y qntngU'Y qntngU' y qwr' 'kpucn'ij g'urk' g' i wctf 'y j kg' ucncf kpi 'ku'kvu'v gdu'c'p'ncp'p'ncp'p' 'uxgt 'j g'ij gcjv kpi ='

- ÁCf f k l q p c i t q y u' q h' t q q h' u j g c y k p i " o { " d g' l p u c n e f " d { " y q t n g t u' r q u k l q p g f " q r " r t g x l q w u n " l p u c n e f " t q y u' q h' u j g c y k p i O' C " u n f g' i w c f " e c p " d g " w u g f " q' c u u k u v " y q t n g t u' k p' t g c l p l p i " y g k' t u q u p i " f w k p i " u w e e g u i k g' u j g c y k p i " q r g t c w p u " c p f "

\*Á Cff kkkpccn'unkf g'i wctf u'uj cni'dg'ugewgn' /cwcej gf "vq'j g'tqqh'cv'lpvgtxcni'pqv' vq' /gzegf /'35' /hggv'cu'uweegukxg' /tqy u'qh'uj gcj /'pi /'ctg' /kpuvcmgf /'Hqt' /'tqqh' y /k' /'r kcj gu'lp' /gzeguu'qh' /; /kp /340'unkf g'i wctf u'uj kni'dg' /kpuvcmgf' /'cv'hqwt' /hqqv' /kpvtxcn'0

•ÁY j gp" y gv' y gcv' gt" \*tclp." upqy ." qt" urrgv" ctg" r tguerp'Y' tqh' uj gcv' kpi " qr gtc'kqpu"uj cni'dg'uwr gpf gf"wprgui'uchg'hq'v'kpi "ecp'dg'cuw'gf'hqt'y'qug" y qtngr'tu'kucv'kpi 'uj gcv' kpi 0"

•ÁY j gp"utqpi "y kpfu"\*cdqyg"62"o kngu"r gt"j qwt+"ctg"r tguqpv"tqqh"uj gcvj kpi "  
qr gtcvkpu"ctg"q"dg"uwur gpf gf"wpngui"y kpf "dtgcngtu"ctg"gtgevgf"

• **Á** "

• **Á** "



## Fall Protection

*Kpɔc nɛ wɛp 'qɛ' Hɛqɛt 'Lqkɔu' cɛpɛ 'Uj gɛ vɛ kɛi "*

F wtkpi 'y g'kpucncvqp'qh'hmqat'uj gcvj kpi llqkuw'rgcf kpi 'gf i g'eqp/utwvkvq+: 'y g'  
hqmvy kpi 'wgr u'uj cm'dg'cngp'q'r tqgvev' qtngtu<

- ÁQpn{ "y g"hnmy kpi "tckpgf"y qtngtu"y km"dg"cmgy gf "vq"hpucm"hnqt "lqlwu"qt"  
uj gcy kpi <

aa"

aa"

aa"

- ÁO cvgtkcn"lqt"vj g"qr gtcvkpu"uj cm'dg"eqpxgpkpvn("uci gf "vq"cmqy "lqt"gcu("ceegu"vq"y qtngtu<"

- Á Vj g"htu"lmaq"lqku"qt"twaugu'y kn'dg"tqngf"lpvq"r qukkqp"cpf"ugewt gf "gkj gt"  
htqo "vj g'i tqwpf."hcf fgtu"qt"ucy j qtug"uechhpf u<"

- \*Á Gcej "uweegauksɣ'ɦuq't'ɬqɛn'qt'ɬwuu'ɣ knɪdɣ'tqmgf'ɦpɣ'r'ɛeg'cpf'ugewgf'ɦtqo  
c'r'ɛvɦqto'etɣcvɣf'ɦtqo'c'ɦj ggv'qh'r nɣ y qɣf'ɛɪf'qɣxt'ɦj'ɣ'r tɣxkɪwɪf'ugewgf'  
ɦuq't'ɬqɛn'qt'ɬwuuɣ"

- Á Gzegr v'ltq "v'j g'ltuv'tqy "qh'uj gcy lpi "y j lej "y km'dg"lpucmgf "ltqo "rcf fgtu"qt"  
v'j g'i tqwpf. 'y qtngtu'uj cm'y qtnltqo "v'j g'gucdrkuj gf 'f gem'cpf"

- ÁCp1 'y qtngrtu'pqw'cuuknkp1 'kp'j g'ngcf kpi 'gf i g'eqpurtwvkwq'y j kng'ngcf kpi 'gf i gu'unkn'gzkn' \*g0 0'ewwkp1 'j g'f genkp1 'hqt'j g'kpucnrgtu+uj cm'pqv dg' r gto kwgf 'y kj kp'ukz'hegv'qh'j g'ngcf kpi 'gf i g'wvf gt'eqpurtwvkwq0'

*Gt gevkqp 'qh'Gz vgt kqt 'Y c nu'*

F wtkpi "j g"eqputwekwq"cpf "gtgekwq"qh'gzvgtkqt'y cmu."go r m{ gtu'uj cm'vcmg"j g"  
hqmny kpi "uwr u'vq'r tqgev'y qtngtu<

- ÁQpn('j g'hqmy lpi 'tclpgf'y qtngtu'y kn'dg'cmty gf 'q'gtge'gzvgtkqt'y cmk<"

"

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- ÁC"r k p v f " n p g " u z " h g n l r q o " y g " r g t k o g v g t " y k n " d g " e r g c t n l " o c t n g f " r t k q t " v " c p { " y c m l g t g e v k p " c e v k k k g u " v " y c t p " q h " y g " c r r t q c e j k p i " w p r t q w e v g f " g f i g <"

- ÁO cvgtkcn" hqt" qr gtcwqpu" uj cm' dg" eqpxgpkcpw( " uci gf" vq" o kpk k g" hcm"  
j c| ctfu="cpf"

- ÁY qtn̄gtu" eqputwēvpi "gzv̄t̄k̄t" y cm̄l' ūj cm̄' eqo r̄rgv" cu" o wēj "eww̄k̄pi "qh"  
o cv̄t̄k̄n̄c̄p̄f' q̄y ḡt' r̄tgr c̄tēv̄k̄p̄'cu'r qūk̄d̄rg'cy c{ 'ft̄qo 'ȳ ḡ'gf i ḡ'qh'ȳ ḡ'f gen̄Ń

### III. ENFORCEMENT

Egawpɛv'pɛy ctgpgu'q'h' cpf' t'gʉ gev'ht' h'ml' j c| ct f u' " cpf' eqo r nkepg' y ksj' cm' uchv' t'wgu' ctg' equp'k' g'f' eqpf kskp'q'h' go r nq| o gp'0'Vj g' et'gy' uw' gtxkq' q't' hqt go p'0cu'y g'm'cu'lpf ksk' n'p' y' g' Uchev' cpf' Rgtuappgn'F gr ctwo gpv' t'gust'x' g' s'j' t'lj' j' y' kuw' f'uek' wct' i' y' ct'kpl' u' y' go r nq| g'gu' t' w' o' " cpf' k'p'w'lp' i' v'go k'p'v'q'p' hqt' t'ckw'g' q' h'm'y' j' g' i' w'f' k'p'g'p'q'h'Vj k'ut' t' r' co 0"

#### IV. ACCIDENT INVESTIGATIONS

Cn'ceef gw'v' cv'tgw'n'lp'lpw' { "q'y qntngu'tgi ctf ngu'qh'i' gl't'pcw'ig.'uj cm'd'g' l'px'guk' cv'f' cpf' "tgr q't'g'v'f' O'K' ku' cp' l'p'gi tcn' r c'tv' qh' cp' { "uch'v' "r tqi tco "y cv' f' qewo g'pvc'p'cng' r'x'eg'c'v'uo'q'p'cu' r'qu'ld'g' "uq' "y' cv'j' g'ecw'g'cpf' "o' g'cu' qh' r' t'gx'g'p'c'ecp'd'g'k'p'gw'v'f' "q' r' t'gx'g'p'v'c'lg'ee'v'g'p'eg'o' }

kʰɿ˥˩ ʲj ɡ ɡxɡpɿ˥˩ ʲj cɿ˥˩ cʰɿ˥˩ go r nɿ [ɡɡ˥˩ hɿmɿ˥˩ qɿ˥˩ ʲj ɡtɡ˥˩ kʰu˥˩ uqo ɡ˥˩ qɿ˥˩ ɡt˥˩ tɿɿvɿf˥˩ . ʲuɿtɿkwu˥˩  
kʰɿf ɡpɿ˥˩ qeewɿtɿpɿ˥˩ . ʲj kʰu˥˩ r nɿ˥˩ ʲj cɿnɿ˥˩ dɡ˥˩ tɿɿxɿɿ ɡf˥˩ ʲvq˥˩ f ɡvɡto kʰɿf˥˩ kʰi˥˩ cɿf kɿkqɿcɿnɿ  
r tceɿvɿɿtɿ Rɿqɿɿ ʲwɿɿ ɡt˥˩ tɿɿɿpɿ˥˩ pɿɿɡf˥˩ ʲvq˥˩ dɡ˥˩ kɿ r nɡo ɡpɿvɿf˥˩ ʲvq˥˩ r tɿɿxɡpɿ˥˩ uko kɿt˥˩  
ʲvɿ ɡu˥˩qʰiɿfɿhɿtɿ kʰɿf ɡpɿu˥˩tɿqo ʲuɿɿɿtɿpɿ 0ʰ

## V. CHANGES TO PLAN

Cp["ej cpi gu'q'j'j' g'r nɛp'j'j' kɪ'dg'c'r r tɔxgf' d'["pco'g'qh'j'j' g's wɛɪkɪgf' r'gtuɔp'θ' Vj' kɪ'r nɛp'j'j' cɪm'f'dg' tɔxgf' g' d'["c' s' wɛɪkɪgf' r'gtuɔp' cu'j'j' g' lɪd' r' tɔi' tɔguɔ' q' f' gɔto' lɔp'g' h'f' c'f' f'kɪpɪcɪn' r tɛvɛgu' r' tɔqgf' wɛgu' q't' ɪcɪlɔp'j'j' pɛgɛv'j'j' q' d'g' ko' r'go' gɛvɛf' d'["j'j' g' eqo' r' gɛvɛp' r'gtuɔp' q' ko' r' tɔxgf' q't' r' tɔxɪf' g' c'f' f'kɪpɪcɪn' hɛm' r' tɔqɛvɪqɔp'θ' Y' tɔmɪr'j'j' u'j' cɪm'f'dg' pɔqɪkɪgf' cɪp'f' ɪcɪlɔp'g'f' h'f' pɛgɛguɪc'θ' l'p' j'j' g' pɛy' r' tɔqgf' wɛgu' c'eqr' j'j' q'h'j'j' kɪ'r nɛp' cɪp'f' cɪn'f' r' tɔxgf' ej' cpi' gu'j'j' cɪm'f'dg' o' cɪpɪcɪpɪgf' cɪv' j'j' g' lɔdɔgu'c'g'"]

17; "HT"629520Cwi 0; . '3; ; 6\_"

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OSHA'S RESIDENTIAL FALL PROTECTION STANDARD

BY

JULIE A. PACE

STINSON MORRISON HECKER LLP

Vj g"equu"qh'xkqrvkpi "QUJ C"ucpf ctf u"ctg"guernvki 0'Ugtkqwu"ekcvkpu"ecp"dg"kuwgf "hqt"wr "vq" &9.222"hqt"gecj "xkqrvkqp."y j krg"tgr gcvt"qt"y krtwi'ekcvkpu"ecp"dg"kuwgf "hqt"wr "vq"U92.222"hqt"gecj "xkqrvkqp0QUJ C"j cu'i tcf wcm' lpetgcugf "vj g"pwo dgt"qh'ekcvkpu'k'kuwgu."cu'y gni'cu'vj g'uk' g'qh'kpgu0K'ku"pqv'wucn'ht"cp"go r nq{ gt. "qp"QUJ C)u'htu'lpur gevkp."vq"tgegkxg'o wnr ng'ekcvkpu'lp"gzeguu'qh'vj qwucpf u"qh'f qmctu0"

J qy "cevkg"j cu"QUJ C"dggp"kp"hlkpi "go r nq{ gtuA'K'3; ; : "QUJ C"ko r qugf "tgeqtf "rgxgn'r gpcnkgu"qh" qxgt"&422"o knkqp."cu'eqo r ctgf "vq"3; : 5'y j gp"QUJ C'r tqr qugf "r gpcnkgu"qh"&60 "o knkqp0"

Dcugf "qp"QUJ C)u' tgegpv' ghqtu" vq" f ghkg" cpf " gpcev' xctkqwu" ucpf ctf u." uki phkcpv' eqo r rkepeg" tgr qpukdkkkgu"j cxg"dggp"r nceg' f kgevn' "qp"vj g"uj qwf gtu"qh'dwkpguu"qy pgtu"cpf "uchgv' "r tqhguukqpcn0' Mpqy rgi g" qh' vj g" vgej plecn' grgo gpw' qh' ucpf ctf u." cpf " r quugukqp" qh' r tqcevkg" cvkwf g" vqy ctf u" eqo r rkepeg."ctg'pgeguuct { "tcku'kp"vqf c{ u'tcr kf n' ej cpi kpi ."cpf"ekcvkqp"j cr r { ."QUJ C"gpvktqpo gpv0"

FALL PROTECTION STANDARD

QUJ C"u' tgegpv' hqt { "lpvq"twg/o cnkpi "j cu'tguwgf "kp"ko r ngo gpvkvqp"qh'vj g"hcni'r tqgevkvqp" ucpf ctf 04; "E(HT0EE'3; 480722"vq'3; 4807250Vj g'ucpf ctf ."y j lej "dgeco g'ghgevkg"qp"Hgdtwct { "8.'3; ; 7." tgs vktgu"vj cv'f guki pcvgf "hcni'r tqgevkvqp"u' ugo u"o wuv'dg"wgf "d{ "go r nq{ ggu"y j q'y qtn'cv'j gli j w'qh'ukz" hggv0Vj g'r tgxkqwu"j gli j v'tgs vktgo gpv'y cu'ukz vggp'hggv0Cnq qwi j "eqo o gtekn'eqputwekvqp"j cu'npqi "dggp" uwdlgev"vq"hcni'r tqgevkvqp"ucpf ctf u."vj ku'ucpf ctf "gzc r cpf u"QUJ C)u'eqxgtci g"vq"tgukf gpvkn'eqputwekvqp0' Dgecvug"vj g'j gli j v'tgs vktgo gpv'j cu'dggp'tgf wegf ."o cp { "ugi o gpw'qh'vj g'eqputwekvqp"cpf "o cpwkcwtkpi " kpf wut { "ctg"vpegtckp"y j gvj gt"vj g { "ctg"uwdlgev"vq"ucpf ctf 0'Eqxgtci g"kuwgu"j cxg"ctkugp"htqo "uy ko o kpi " r qqn'cpf "o qdkg"j qo g"o cpwkcwtkgtu."xgpf qtu"y j q'f grkxgt"eqputwekvqp"uwr r nkgu."cpf "gxgp"vj qug"y j q" o gtgn' "nqcf "o cvgtkcn0"

DESIGNATED FALL PROTECTION SYSTEMS

Vj g"ucpf ctf "f guki pcvgu"i wctf tckn'u' ugo u."uchgv' "pgv'u' ugo u."cpf "r gtuqpcn'hcni'cttguv'u' ugo u"cu" vj g"r tko ct { "hcni'r tqgevkvqp"o gvj qf u" \*dqf { "dgnu"ctg"knqi cn'cu"qh'Lcpwct { "3; ; : +0'K'cnq"ugw"htqj "vj g" vgej plecn' tgs vktgo gpw' vj cv' gcej "u' ugo " o wuv' ucwuh { " vq" dg" kp" eqo r rkepeg0' Kp" egtckp" r j cugu" qh' eqputwekvqp."j qy gxgt."eqpvtcevqtu"o c { "dg"wpcdrg"vq"eqo r nq { "y kj " vj gug"vgej plecn' tgs vktgo gpw0' Hqt" gzc r ng."y j gp'ugvki "vj g"lpkkn'twugu"kp" c"tgukf gpvkn'j qo g."vj g'f guki pcvgf "o gvj qf u"qh'hcni'r tqgevkvqp" ctg"i gpgtcm' "kphgcukdrg"qt"uwdlgev"go r nq { ggu"vq" c"i tgcvt"j c { ctf 0'Uchgv' "pgw"cpf "i wctf "tckn'ecppqv'dg" wugf " ghkelpv" " qt" ghgevkg." cpf " vj g" r gtuqpcn' hcni' cttguv' u' ugo " tgs vktgu" cp" cpej qtc i g" r qkp v' hqt" go r nq { ggu"vq" vq" qh' dw'vj gtg"ku'pqp0Vy q'lpkkn'dw'wptgcnkue."uwi i gukqpu'vj cv'QUJ C'r tqr qugf "y gtg" vj cv'vj g" gpvktg"tqqh'eqwrf "dg"eqputwegf "qp"vj g" utggv' cpf "vj gp" rktvgf "d { "etcpg"qpq"vj g"j qo g"qt" c" vgrj j qpq"r qng"eqwrf "dg"gtgevgf "cv' gcej "tgukf gpvkn'j qwug."vj gtgd { "r tqxkf kpi "go r nq { ggu"cp" cpej qtc i g" r qkp v'vq" wug'r gtuqpcn'hcni'cttguv'u' ugo u0"

"

"

Lwkg'C0Rceg'"  
Ukpuqp'O qttkqp"J gengt'NNR"  
"

"

"



Cp"go r m{ gt'y j q"uugu'c'u{ ugo "lpeqttgevn' "ku'cnuq'uwdlgev'q" c'ekcvkqp0K'o c{ "dg'pgeguuct{ "vq"j kg" cp"gni kpggt"vq"cuuguu'y j gyj gt" c'u{ ugo "ku'dgkpi "wugf"eqttgevn' "qt'y j gyj gt"v'j g'u{ ugo . "cu'wugf . "uwdlgeu"cp" go r m{ gg"vq" c'i tgcvgt" j c| ctf 0Hqt"gzco r rg. "kpugtvpki "cpej qtc i g'r qlpw'f kgevn' "kpq"y qqf "t wugu. "y kj qww" o qtg. "o c{ " gpcdrng" go r m{ ggu" vq" wug" v'j g" r gtuqpcn' hcm" cttguv" u{ ugo "cpf" o c{ " ckf" v'j g" go r m{ gt" kp" r t g x g p v k i " e k c v k p u " d c u g f " u t l e v n ' " q p " q d u g t x c v k p u " d { " Q U I C " e q o r r k c p e g " q h h e g t u . " y j g p . " k p " h c e v . " v ' j g " u { u g o " o c { " p q ' u c v k u h { " v ' j g " v e j p l e c n ' t g s w k t g o g p w ' q h ' v ' j g " u c p f c t f " c p f " o c { " u w d l g e v ' v ' j g " g o r m { g g " v q " c " i t g c v g t " t k u n i q h h c n k p i 0 " "

## ALTERNATIVE FALL PROTECTION PLAN

Cu'y kj "cm qu'cm'tgi wcvkpu. "v'j ku'ucpf ctf "eqpvkpu"cp"gzegr vkp0Vj g"cngtpcvkg" hcm'r tqvgevqp" r m{p"o c{ "dg" wugf "y j gp" v'j g" f guki pcvgf "o gyj qf u"ctg" kphgcukdrng" qt" uwdlgev" go r m{ ggu" vq" c"i tgcvgt" j c| ctf 0Vj g"cngtpcvkg" hcm'r tqvgevqp" r m{p" ku"cxckrdng" vq" go r m{ ggu" gpi ci gf "kp" rncf kpi "gf i g" y qtm" r t g e c u v " e q p e t g v g " g t g e v k p " y q t m " q t " t g u k f g p v k n ' e q p u t w e v k p " y q t n 0 T g u k f g p v k n ' e q p u t w e v k p " k u ' f g h k p g f " c u " v ' j g " e q p u t w e v k p " q h ' t g u k f g p v k n ' d w k f k p i u " q h ' v ' j g t g g " u v q t k g u " k p " j g k i j v ' q t " r g u u . " c d q x g " v ' j g " i t q w p f 0 V j g " c n g t p c v k g " r m { p " k u ' c n u q " c x c k r d n g " h q t " h i j v ' e q o o g t e k n i y q t m i e q p u k v k p i " q h ' v ' j g " u c o g ' t g u k f g p v k n ' d w k f k p i " o c v g t k e n " c p f " u k o k r c t " u k " g " q h ' t g u k f g p v k n ' d w k f k p i u 0 " "

Vj g"cngtpcvkg" r m{p"cmqy u"go r m{ ggu" vq" wug" o gcuwtgu" qv'j gt" v'j cp" v'j g" f guki pcvgf "o gyj qf u" qh' hcm' r tqvgevqp0Cngtpcvkg" y qtni' tcevegu' kpenf g' rcf fgtu. "uechhqr f u. "urkf g' i wctf u. "ucy j qtugu. "uchgv' "o qpkqtu. " hqtmkhu. "etcpgu. "t wuu' y gdu" c p f " e j q t f u . " e q p v q m g f " c e e g u u " p p g . " c p f " c w g o r u ' v ' q " o k p l o k g ' v ' j g " v o g ' v ' j c v ' c p " g o r m { g g " k u " g z r q u g f " v q " c " h c m ' j c | c t f 0 V j g " r m { p " o w u v " d g " k p " y t k k p i " c p f " d g " u r g e k h e " v q " g c e j " l q d " u k g . " j q y g x g t 0 " "

## BURDEN ON EMPLOYER TO DEMONSTRATE INFEASIBILITY OR GREATER HAZARD

Vj g" hcm'r tqvgevqp"ucpf ctf "ku"wpks wg" kp" v'j cv'k'ku"pqv'r gthqo 3cpeg"dcugf = "kpugcf . "k'f ghkpgu" v'j g" v'f r gu"qh'u{ ugo u"v'j cv'go r m{ gtu'o wuv'wug" y j gp'r gthqto kpi "eqputwevqp" y qtn0Hwt v'j gto qtg. "v'j g"ucpf ctf " r m e g u " v ' j g " d w t f g p " q p " g o r m { g t u " v q " f g o q p u t c v g " v ' j c v ' c " f g u k i p c v g f " u { u g o " k u " k p h g c u k d r n g " q t " u w d l g e u " c p " g o r m { g t " v q " i t g c v g t " j c | c t f . " v ' j g t g d { " v k m p i " v ' j g " d w t f g p " k p " h x q t " q h ' Q U I C " y j g p " k u u k p i " c " e k c v k p " v p f g t " v ' j g " h c m ' r t q v g e v k p " u c p f c t f " c p f " k p e t g c u k p i " e q u u " v q " g o r m { g t u " y j q " e q p v g u v ' e k c v k p u 0 " "

## WRITTEN CERTIFICATION OF TRAINING

O qtgqxtg. "v'j g"ucpf ctf "tgs wktgu'y tkwgp"egt v h k e c v k p " q h ' v t c k p k p i " t g i c t f k p i " g c e j " g o r m { g g " y j q " o c { " d g " g z r q u g f " v q " h c m ' j c | c t f u " q h ' u k z " h g g v " q t " o q t g " c p f " k f g p v k g u " x c t k q w u " v q r k e u " v ' j c v ' o w u v " d g " k p e n f g f " k p " v ' j g " v t c k p k p i 0 V j g " v t c k p k p i " t g e g k x g f " k u " r q t w d r n g 0 V j g " y t k w g p " e g t v h k e c v g " q h ' h c m ' r t q v g e v k p " v t c k p k p i " u j q w f " d g " r m e g f " k p " g c e j " g o r m { g g " u " r g t u p p g n i h k g 0 " "

## HOME BUILDERS ASSOCIATION OF CENTRAL ARIZONA

O cp{ "eqpegtpu"gzku'tgi ctf kpi "v'j g"ucpf ctf 0K'eqpvkpu"o cp{ "wpf ghkpgf "qt" xci wg" vgt o u. "cpf "k'j cu" rghv" go r m{ gtu" y kj qww' uwhkelpv' i wlf cpeg" qt" pqveg" tgi ctf kpi " v'j g" ugr u" v'j g{ " o wuv' weng" vq" cej kxg" eqo r r k c p e g 0 H w t v ' j g t o q t g . " q p g " c r c t o k p i " u v c k u k e " v ' j c v ' j c u " d g g p " r t g u g p v g f " d { " c p " Q U I C " "

Lwrlg'C0Rceg"  
Ukpuqp'O qttkuqp"J gengt'NNR"











**OSHA'S FALL PROTECTION STANDARD  
RESIDENTIAL CONSTRUCTION  
(TOOL BOX TALK)**

**I. COMPANY'S FALL PROTECTION PLAN.**

Vj g'Ego r cp{ "j cu" c' hcm'r tqvevqp" r np" hqt' tgukf gpvkn' eqputwevqp" vq" gputg" vj cv' qwt" go r m{ ggu)" tkun' vq" hcm' j c| ctf u" ctg" tgf wegf "qt" gko kpcv' g' Vj g'Ego r cp{ "ku" eqo o kvgf "vq" o ckpckpki "c" uchg" y qtni' gpxktqpo gpv' Gcej "go r m{ gg" ku" cuq" tgu qpukdrg" vq" gputg" vj cv' vj g" y qtni' mreg" ku" uchg' Go r m{ ggu" ctg" r tqj kdkgf "htqo " gpi ci kpi "kp" wpuchg" cevkxkkgu' Cf f kkpqcmf . " go r m{ ggu" ctg" tgs vktgf " vq" ko o gf kcvgnf " kphqto "c" uwr gtxluqt" qh' cp{ "wpuchg" cevkxkkgu' "qt" gs vkr o gpv' "

Vj g'Ego r cp{ "u" r np" ku" f guki pgf "vq" gpcdrg" vj g'Ego r cp{ "cpf" go r m{ ggu" vq" tgeqi plk g" vj g" hcm' j c| ctf u" cuuqekv' y kj "vj g" r tq lgev' cpf "vq" guvcdkuj "vj g" uchguv' r tqegf wtu" vj cv' ctg" vq" dg" hqmny gf "vq" r tngxpv' hcm' vq" mny gt" r xgnu" qt" vj tqwi j "j qngu" cpf "qr gpki u" kp" y cmkpi ly qtnkpi "uwr hcegu' Vj g' r np" cuq" uggmu' vq" o kpo k g" vj g" co qwpv' qh' vko g" cp" go r m{ gg" ku" g' zr qugf "vq" c' hcm' j c| ctf 0C" eqr { "qh' vj g'Ego r cp{ "u" hcm' r tqvevqp" r np" ku" cxckrdrg" hqt" kpur gevqp" cv' vj g'Ego r cp{ "u" egpvcn' qh' hleg" cpf lqt" o c{ "dg" r quvgf "qt" o ckpckpgf "cv' vj g' lqd' uksg' Go r m{ ggu" ctg" y grego g" vq" tgs wguv' c" eqr { "qh' vj g' r np' "

**II. COMPANY'S PLAN IS IN COMPLIANCE WITH OSHA'S FALL PROTECTION**

Vj g'Ego r cp{ "u" hcm' r tqvevqp" r np" ku" kpvpgf gf "vq" eqo r n{ "y kj "Uwdr ctv' O .4; "E" H0T0E0E03; 480722" vq"3; 480725" cpf "cr r gp f legu" cpf "QUU C" u" eqo r nkepeg' f kgevkxg' f cvgf "F gego dgt" . :3; ; 70" Vj g" ucpf ctf " tgs vktgu" vj cv' go r m{ ggu" dg" vckpgf "vq" tgeqi plk g" hcm' j c| ctf u" cpf "vq" wug" hcm' r tqvevqp" o gcuwtgu' Vj g" ucpf ctf "tgs vktgu" vj cv' go r m{ ggu" wug" hcm' r tqvevqp" o gcuwtgu. "kpenw kpi "cngtpcvkxg" uchg" y qtni' tcevegu. " y j gp' y qtnkpi "cv' j gki j w' qh' ukz' hggv' qt' i tgcvt' "

**III. TRAINING.**

Gcej "go r m{ gg" y knidg" vckpgf "tgi ctf kpi "hcm' r tqvevqp" j c| ctf u" cpf "o gcuwtgu" vj cv' vj qwr "dg" wugf " f wtkpi "tgukf gpvkn' eqputwevqp' O" k" go r m{ ggu" dngxg" vj cv' vj g{ "o c{ "dg" uwdlgev' "vq" c" i tgcvt" j c| ctf "d{ " eqo r n{ kpi "y kj "vj g'Ego r cp{ "u" hcm' r tqvevqp" r np. "vj g" go r m{ gg" o wuv' pqvkhf "vj g" hqtgo cp' qh' eqo r gvgpv' r gtup" cpf "j cxg" vj g' eqpegtp" cf f tguvgf "dghqtg" r tqeggf kpi "y kj "vj g" cum' Vj g'Ego r cp{ "tguvtxgu" vj g' tkj v' vq" r gtlkf kcmf "gxcnvcg" go r m{ ggu" qp" gngo gpw' qh' hcm' r tqvevqp" vckpki "cpf "tgtckp" go r m{ ggu. "k" pgeguuct{ ' "

Go r m{ ggu" y j q" j cxg" eqo r ngvgf "vj g'Ego r cp{ "u" hcm' r tqvevqp" vckpki "ctg" s wcnkkgf "vq" eqo r ngvgf " vj g" cum' k' gpvkhf "kp" vj g'Ego r cp{ "u" hcm' r tqvevqp" r np" cpf "ctg" cwj qtk gf "vq" gpvt" vj g' Eqpvqngf " Ceegu" \ qpg' "

"  
"  
"  
"

"   
Lwkg' C0Rceg"   
Ukpuqp' O qttkuqp" J gengt' NNR"   
"



#### IV. KEY DEFINITIONS.

##### A. Residential Construction.

Tgukf gpvkn'eqputwekqp"ku" fghpgf "cu" yj g"eqputwekqp" qh'tgukf gpvkn'dwrf lpi u"qh"5"uqtkgu"kp" j gki j v"qt" ngu. "cdqsg" yj g" i tqwfp O' Tgukf gpvkn' eqputwekqp" cr rkgu" vq" utwewtg" yj gtg" yj g" y qtnkpi " gpvktqpo gpv"cpf" yj g"eqputwekqp" o cvgtknu. "o gyj qf u. "cpf" r tdegf wtgu" go r m{ gf "ctg" guugpvkcm{ " yj g" uco g" cu" yj qug" wugf "hqt" v{ r kcnj qwug" ukpi ng/ hco kn{ "f y gmkpi +cpf" vqy pj qwug" eqputwekqp O'

##### B. Responsibilities of Foreman or Competent Person.

K'ku" yj g"tgur qpukdkk{ "qh" yj g" hqtgo cp" qt" eqo r gvgpv" rgtuqp" vq" ko r ngo gpv" yj g" Eqo r cp{ u" hcm' r tqvgevkp" r rcp O' Vj g" hqtgo cp" qt" eqo r gvgpv" rgtuqp" o c{ "f guki pcvg" yj g" o quv" gztgkpegf "qt" s wckkkgf " kpf kxf wcn{ vq" eqo r ngv" egtvckp" cumu O' Vj g" hqtgo cp" qt" eqo r gvgpv" rgtuqp" o wuv" f guki pcvg" c" Eqpvqngf " Ceeguu\ qpg O'

Eqpvkpcn' qdugtxcvkpcn' uchgv{ "ej gemu" qh" y qtn{ qr gtcvkpu" cpf " yj g" gphqtego gpv" qh" yj g" uchgv{ " r qre{ "cpf" r tdegf wtgu" u{ cm' dg" tgi wcn{ "gphqtegf O' Vj g" hqtgo cp" qt" eqo r gvgpv" rgtuqp" ctg" tgur qpukdkg" hqt" eqttgkpi "cp{ "wpuchg" cevkkk{ "qt" eqpf kkp" ko o gf kcvgn O' Go r m{ ggu" ctg" tgs wktgf "vq" kphqto " yj g" hqtgo cp" qt" eqo r gvgpv" rgtuqp" qh' cp{ "wpuchg" cevkkk{ "qt" gs wkr o gpv O'

##### C. Controlled Access Zones.

C" hqtgo cp" qt" eqo r gvgpv" rgtuqp" o wuv" f gvgto kpg" yj g" gt" c" tgeqi pk gf "j c| ctf" gzkuu" cpf. "kh" uq. " etgcvg" c" eqpvqngf "ceeguu" | qpg" \*SEC\ \$-O' C" EC\ "ku" fghpgf "cu" cp" ctgc" kp" yj lej "egtvckp" v{ r gu" qh" y qtn{ o c{ "qewt" y kq qw" yj g" wug" qh" i wctf tckn{ u{ ugo u. "r gtuqpcn' hcm' cttguv" u{ ugo u. "qt" uchgv{ "pgv" u{ ugo u O' Ceeguu" vq" yj g| qpg" ku" tguvkevgf "vq" cwj qtk gf "gpvcpu" qpn O'

F wtkpi "uqo g" r j cugu" qh' tgukf gpvkn' eqputwekqp. " yj g" gpvktg' tgukf gpvkn' dwrf lpi " o c{ "dg" eqpukf gtgf " c" EC\ " | qpg. " yj lej " kpenf gu" wr " vq" vgp" hggv" htqo " yj g" r gtko gvg" y cmu" qh" yj g" dwrf lpi O' C" EC\ " ku" guvdkuj gf "d{ "eqpvqn' rkgu. "tqr gu. " y kgu. "uki pu. "ej kpu. "vcr gu. "qt" gs wxcrgpv" o cvgtknu O' Hqt" gzc o r ng. "c" dklpi wcn{ uki p" o c{ "dg" r quvgf "cv" yj g" htqp' qh' yj g" j qwug" vq" kpf kcvg" yj cv" yj g" gpvktg" j qwug" ku" c" EC\ O'

Go r m{ ggu" yj q" ctg" cwj qtk gf "vq" y qtn{ kp" yj g" EC\ " ctg" yj qug" go r m{ ggu" yj q" j cxg" tgegkxgf " vckpki "tgi ctf kpi "hcm' r tqvgevkp" j c| ctf u" cpf "u{ ugo u O' Vj g" eqo r cp{ "cenpqy ngf i gu" yj cv" yj gtg" ctg" ko gu" kp" yj lej "go r m{ ggu" qh' qy gt" eqo r cpkgu" y km' gpvg" yj g" EC\ O' K' cp" go r m{ gg" qh' cpqy gt" Eqo r cp{ "gpvgtu" yj g" EC\ . "go r m{ ggu" u{ qwf "gkj gt" uqr "y qtn{ vq" ngv" yj g" rgtuqp" r tdegf " y tqwi j " yj g" j c| ctf qwu" ctgc" qt" eqpvkpwg" y qtnkpi "chgt" o cnkpi "uwtg" yj cv" yj g" qy gt" eqo r cp{ u" go r m{ gg" ku" pqv' r gthqto kpi "y qtn{ kp" emug" r tqzko k{ "vq" yj g" f kgev" j c| ctf O'

##### D. Alternative Work Practices.

F wtkpi " yj g" Eqputwekqp" qh' tgukf gpvkn' dwrf lpi u" cv' qt" wpf gt" 5" uqtkgu" kp" j gki j v. "k' ku" uqo gvk o gu" kphgcukdg" qt" etgcvgu" c" i tgcvg" j c| ctf "vq" wug" f guki pcvgf "hcm' r tqvgevkp" u{ ugo u" uwej "cu" i wctf tckn{ u{ ugo u. " uchgv{ "pgv" u{ ugo u. "cpf" r gtuqpcn' hcm' cttguv" u{ ugo u O' K' f guki pcvgf "hcm' r tqvgevkp" u{ ugo u" o c{ "pqv' dg" hgcukdg" qt" yj g" uchgv" ej qleg" hqt" go r m{ ggu. " yj g" r tko ct{ "cngtpcvkg" y qtn{ r tcevegu" yj cv" yj g" Eqo r cp{ "o c{ " wkk{ g" kpenf gu. "dw" ku" pqv' rko kxgf "vq. " rcf fgtu. " r gtuqpcn' hcm' cttguv" u{ ugo u. "uchgv{ "o qpkktpi "u{ ugo u. "

Lwkg" C O' Rceg" " Ukpup" O' qttkuqp" J gengt" NNR"



o qpkqtkpi "u{ ugo u."eqpvtqmgf "ceeguu| qpgu."tvuu'y gdu"cpf "ej qtf u."urkf g"i wctf u."ucy j qtugu."i wctf tckri  
u{ ugo u."uechhqrif u."dwf f { "u{ ugo . "hqtmmkmu."etcpgu."r rrvhqtto u"kp"eqplwpevkqp"y kj "o qvqt kf "gs wkr o gpv."  
cpf "o kpk o kpi "cp"go r mq { gg}u"gzr quwtg"ko gO'

#### E. Safety Monitoring Systems.

Ki"e"uchgv "o qpkqt "ku"wgf . "y g"uchgv "o qpkqt "uj cm'dg" f guki pcvgf "d{ "y g"Eqo r cp{ . "cpf "uwej " r  
gtuqp"uj cm'y ctp"cp"go r mq { gg'y j gp"kv'cr r gctu'y cv'y g"go r mq { gg"ku"wpvy ctg"qh'c"hcml'j c| ctf "qt"ku'cev'kpi " k  
p"cp"wpuchg"o cppgt0Vj g"uchgv "o qpkqt "uj qwf "uggn'vq"lrgs wgpv' "qdugt xg"y g"go r mq { gg}u'cev'kpu0Vj g"  
uchgv "o qpkqt "uj qwf "dg"cdrg"vq"qdugt xg"y g"go r mq { gg}dglpi "o qpkqt gf "cpf "uj qwf "dg"enug"gpqwi j "vq"  
eqo o wplecv'qtcml "y kj "y g"go r mq { gg}0'

#### F. Holes and Covers.

Y qtngtu"uj qwf "ew'y g"r tgf guki pcvgf "j qngu'rcu0Vj g"eqxgtu"qh'y g"j qngu"uj qwf "dg"wtpgf "cpf " u  
gewt gf "vq"kp'f kcv'g"vq"uwdugs wgpv'y qtngtu"kp" f khtgtpv'tcf gu'y cv'c"j qng"ku'r tgu'p0Chgt"ew'kpi "y g"j qngu"  
cpf "ugewk'f "y g"eqxgtu "y g"go r mq { gg}u'uj qwf "ko o gf kcv'g"lrgcxg"y g"tqgh0\$J qng\$ "ku'f gh'kpgf "cu'i cr "qh'4"  
kpej gu"qt"o qtg"kp'c"hmqt."tqgh"qt"qv'gt'y cmkpi "cpf "y qtnkpi "uwtcheg."y j lej "ctg'8"hg'v'qt"o qtg"cdqxg"y g"  
mqy gt"rgxgn0Y qtngtu"uj qwf "dg"ecw'kqu'v'y j gp"y qtnkpi "qp"y g"tqgh"cpf "uggn'vq"kf gp'v'k{ "gzk'kpi "j qngu"  
cpf "eqxgtu'r tkt'vq"eqo o gpekpi "y qtn0Go r mq { gg}u'uj qwf "cxqkf "u'gr r kpi "qp'v'j qngu"cpf "eqxgtu0'

#### G. Wall Openings.

C"y cm'qr gpkpi "ku'f gh'kpgf "cu'c"i cr "qh'52"lpej gu"qt"o qtg"j ki j "cpf "3: "lpej gu"qt"o qtg"y kf g"kp"c"  
y cm' qt" r ctv3vqp0' Qr gpkpi u" kp" tgu'f gp'v'kci" eqpustw'ekqp" eqpukv' r tko ct'k{ " qh' y kp'f qy " qr gpkpi u0'  
Go r mq { gg}u'y j q'y qtn'qp."cv"cdqxg."qt"pgct"y cm'qr gpkpi u"y j gtg"y g"qwu'kf g"dqwo "gf i g"qh'y g"y cm'  
qr gpkpi "ku'8"hg'v'qt"o qtg"cdqxg"c"mqy gt"rgxgn'cpf "y g"kp'kf g"dqwo "gf i g"qh'y g"y cm'qr gpkpi "ku'rgu'y cp"  
5; "lpej gu"cdqxg"y g"y cmkpi "cpf "y qtnkpi "uwtcheg"uj qwf "dg"r tqv'ev'gf "lrgo "hcmlpi "d{ "y g"wg"qh'c"  
i wctf tcklu{ ugo 0'

Vj g"i wctf tcklu{ ugo "hqt"e"y cm'qr gpkpi "o c{ "eqpukv'qh'c"o kf tckn'dglpi "r rnegf /o kf y c{ "dgy ggp"  
y g"qr "cpf "dqwo "gf i gu'qh'y g"y kp'f qy "qt" f qqt"qr gpkpi 0Vj g"o kf tckn'o cvgtkcn'o c{ "eqpukv'qh'y qqf . "  
uvggn'vr g"qt"qv'gt"o cvgtkcn'cu'mpi "cu'y g"o kf tckn'ecp"y kj u'cpf "c"hteg"qh'cv'rgcu'372"r qwpf u0Chgt"e"  
y kp'f qy "ku'kp'v'cngf . "pq"i wctf tckl'qt"qv'gt"v'f r g"qh'hcml'r tqv'ev'kqp"u{ ugo "ku'tgs wkt gf 0C"i wctf tckl'ku'pqv"  
tgs wkt gf "f wtkpi "y g"kp'v'cngf"qh'c"y kp'f qy 0Vj g"i wctf tcklu{ ugo "f guetkdgf "kp"y ku'ugev'kqp"y km'pqv'dg"  
wugf "qp"qr gpkpi u"cv'y g"i tqwpf "rgxgn"dw'kp'v'cngf "uj qwf "dg"ko r rgo gp'v'f "qp"y cm'qr gpkpi u"qp"wr r gt"  
rgxgn'qp'v'f "y j gtg"y g"kp'kf g"dqwo "gf i g"qh'y g"y cm'qr gpkpi "ku'5; "lpej gu"cdqxg"y g"y cmkpi "cpf "  
y qtnkpi "uwtcheg"cpf "y g"qwu'kf g"dqwo "gf i g"ku'8"hg'v'cdqxg"y g"mqy gt"rgxgn'cpf "y g"uk' g"qh'y g"qr gpkpi "  
ku'i tgcvt"y cp"52"lpej gu"j ki j "qt"3: "lpej gu'y kf gO'

#### V. ENFORCEMENT.

Eqpucpv'cy ctgpguu"qh"cpf "tgur gev'hqt."hcml'j c| ctf u."cpf "eqo r rlcpeg"y kj "cm'uchgv "tw'gu"ctg"  
eqpukf gtgf "eqpf k'kpu"qh"go r mq { o gpv0Vj g"htgo cp"qt"eqo r g'v'p'r gtuqp."cu'y gni'cu"uwr gtx'kuqtu"cpf "  
kp'f k'kf wcn'kp"uchgv "qt"r gtu'ppgn"tgugt xg"y g"tki j v'vq"ku'wg" f k'ek' r'k'pct { "y ctpkpi u"vq"go r mq { gg}u."wr "vq"  
cpf "k'p'v'kpi "v'go k'p'v'kqp."hqt"hcml'g"vq"hm'qy "y g"i w'kf g'k'p'gu"qh'y ku'r tqi tco 0'

Lw'kg'C0Rceg"  
Ukpuqp'O qttkuqp"J gengt'NNR"



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## VI. ACCIDENT INVESTIGATIONS.

"  
Cm'ceekf gpu'yj cv'tguwn'lp'lp'lw{ "q"y qtngtu."tgi ctf ngu"qh'yj gk"pcwtg."uj cm'dg"lpxguvi cvgf "cpf "  
tgr qtvgf 0K"ku"cp"lpvgi tcn'r ctv'qh'cp{ "uchgv{ 'r tqi tco "yj cv'f qewo gpvcvqp"veng'r rceg"cu'uqqp"cu'r quukdg'uq"  
yj cv'yj g"ecwug"cpf "o gcpu'qh'r tgxgpvqp"ecp"dg'kf gpv'kgf "q"r tgxgpv'c'tgqeewttgpeg0'  
"

## VII. NO CONTRACT RIGHTS IN FAVOR OF EMPLOYEES.

"  
Vj ku'r qne{ "ku"pqv'o gcpv'q"dg"e"eqvtcev."cpf "yj g"Eqo r cp{ "o c{ "co gpf."ej cpi g"qt" f lueqpvkpwg"ku"  
hcn'r tqvgevpq"r rcp"cv'cp{ "vko g'OGo r mq{ o gpv'cv'yj g"Eqo r cp{ "ku"cv/y kn'cpf "o c{ "dg"vgt o lpcvgf "d{ "yj g"  
go r mq{ gg"qt"d{ "yj g"Eqo r cp{ "cv'cp{ "vko g."y kj "qt'y kj qw'ecwug0'  
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RJ ZFQEUh79458xn"

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Lwkg'C0Rceg'"  
Ukpuqp'O qttluqp"J gengt"NNR"  
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" " "



# Employee Training Certification Form

## Fall Protection

### For Residential Roofing Work \*

Vj g"Go r nq{gt"j cu"y tkwgp"Eqo r cp{"Uchgv"cpf"J gcnj "Rtqi tco "vj cv"f gvcnu"t gur qpukdkkkgu" wpf gt"vj g"Ctk qpq"Fc kkkqp"qh"Qeewr cvkqpcn"Uchgv"cpf"J gcnj u"C"Fc QUJ +hcm'r tqvgevqp"ucpf ctf 0Vj ku" hqto "kf gpvkhgu"vj g"vqr leu"cf f tguugf "lp"vj g"Go r nq{gt}u"Hcm'Rtqvgevqp"Vtclpki "Rtqi tco 0Vj ku"hqto "y km" dg"wguf "vq"egt vkh{ "vj cv"vj g"go r nq{gg}j cu"uweeguhwm{ "eqo r ngvgf "tclpki "lp"vj g"hmuy lpi "vqr leu"<

## FALL HAZARDS IDENTIFICATION CHECKLIST

	YES	N/A
Eqxgtu""	<input type="checkbox"/>	<input type="checkbox"/>
F cpi gtqwu"gs wkr o gpv""	<input type="checkbox"/>	<input type="checkbox"/>
Gcxg"eqput wvqp""	<input type="checkbox"/>	<input type="checkbox"/>
Gzecxvqpu""	<input type="checkbox"/>	<input type="checkbox"/>
Gzvgtkqt"cpf "lpvgtkqt"y cmu"	<input type="checkbox"/>	<input type="checkbox"/>
Hcmkpi "qdlgeu""	<input type="checkbox"/>	<input type="checkbox"/>
Hqqt"lqkruktwukpi "	<input type="checkbox"/>	<input type="checkbox"/>
Hqqt"uj gcj lpi ""	<input type="checkbox"/>	<input type="checkbox"/>
Hqto y qtm"	<input type="checkbox"/>	<input type="checkbox"/>
J qkv"ctgcu""	<input type="checkbox"/>	<input type="checkbox"/>
J qrgu" "	<input type="checkbox"/>	<input type="checkbox"/>
Ngcf lpi "gf i gu""	<input type="checkbox"/>	<input type="checkbox"/>
Nqcf lpi ""	<input type="checkbox"/>	<input type="checkbox"/>
O cvgtknu"cpf "gs wkr o gpv""	<input type="checkbox"/>	<input type="checkbox"/>
""qp"tqqh""		
Qvj gt"uwdeqpvce"vgo r nq{ggu" "	<input type="checkbox"/>	<input type="checkbox"/>
Tco r u"qt"twpy c{u""	<input type="checkbox"/>	<input type="checkbox"/>
Tgdct""	<input type="checkbox"/>	<input type="checkbox"/>
Tqqh"lpi ""	<input type="checkbox"/>	<input type="checkbox"/>
Tqqh"uj gcj lpi ""	<input type="checkbox"/>	<input type="checkbox"/>
Tqqh"t wukpi lchgt lpi ""	<input type="checkbox"/>	<input type="checkbox"/>
Wpr tqvgev"ukf gu"cpf "gf i gu" "	<input type="checkbox"/>	<input type="checkbox"/>
Y cm'qr gpki u""	<input type="checkbox"/>	<input type="checkbox"/>
Qvj gt" "	<input type="checkbox"/>	<input type="checkbox"/>

✓ Check All Appropriate Boxes

Place this form in employee's personnel file.

, "Vj g"tclpki "i wkf gkpgu"fgxgmrgf "d{"vj g"J DCEC"kf gpvkh{ "vj g"vqr leu"vj cv"uj qwf "dg"eqxgtgf "vq" eqo r nq"y kj "vj g"hm'r tqvgevqp"ucpf ctf . "Uwdr ctv"O ."4; "E"HT"EE"3; 480722"vq"3; 4807250Vj g"tclpki " i wkf gkpgu"fq"pqv"cf f tguu"vj g"cf gs wce{ "qh"vj g"tclpki "tgs wkgf "qt"vj g"o cppgt "lp"y j kej "uwej "tclpki " uj qwf "qeewt"vq"gpwtg"eqo r rdcpeg"y kj "vj g"ucpf ctf .



## ALTERNATIVE FALL PROTECTION SYSTEMS CHECKLIST

Vj g"cngrpcvkg"hm'r tqvgevkp"r rcp"o wuv'eqo r n{ "y kj "4; "E0H0E"3; 480/24"m"cpf "o c{ "dg"wgf " y j gp"vj g"Go r m{ gt"ecp"i go qpwtcvg"vj cv'ku"lphgcukdrg"qt"etgcvgu"i tgcvg"j c| ctf "q"wg"qpg"qh"j g" f guk pcvgf "hm'r tqvgevkp"u{ ugo u'k'gpv'kgf "lp"Uwdr ctv'O . "eqpukvpi "qh'i wctf tcku{ ugo u.'r gtuppcn' hcm'cttguv'u{ ugo u."qt"uchgv{ "pgv'u{ ugo u'0

Y j gp"q"wg"Cngrpcvkg"hm'Rtqvgevkp""	"	"	<input type="checkbox"/>	"	"
Kpucnpi "qt'tgo qxkpi 'tqqvpi "gs wkr o gpv""	"	"	<input type="checkbox"/>	"	"
Kpucnpi "qt'tgo qxkpi 'tqqhpi "o cvgtknu"	"	"	<input type="checkbox"/>	"	"
Nqcf kpi "o cvgtknu"cpf "gs wkr o gpv""	"	"	<input type="checkbox"/>	"	"
Qy gtaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "	"	"	<input type="checkbox"/>	"	"
"					
"					
Eqptqmgf "Ceegu" \ qpgu"EC\ +"					
F go ctecvkp"r tqegf wgu""	"	"	<input type="checkbox"/>	"	"
Y j q"ecp"gpvt""	"	"	<input type="checkbox"/>	"	"
Cwj qtk gf "q"y qtmkp "EC\ ""	"	"	<input type="checkbox"/>	"	"
Hm'Rtqvgevkp"tckpki "tgegkxgf""	"	"	<input type="checkbox"/>	"	"
Tqrgu"qh'gcej "go r m{ gg""	"	"	<input type="checkbox"/>	"	"
"					
Hm'Rtqvgevkp"Rcp"					
Vj g'r tqegf wgu""	"	"	<input type="checkbox"/>	"	"
Vj g'tqrgu"qh'gcej "go r m{ gg""	"	"	<input type="checkbox"/>	"	"
F gygo kpi "j cv'wulpi "gkj gt'i wctf tckn'uchgv""	"	"	<input type="checkbox"/>	"	"
pgv'qt'r gtuppcn'hcm'cttguv'u{ ugo u'ku"lphgcukdrg""					
qt'uwdlgeu"go r m{ ggu"q"i tgcvg"j c  ctf 0""	"	"	<input type="checkbox"/>	"	"
"					

✓ Check All Appropriate Boxes

## ALTERNATIVE SAFE WORK PRACTICES OR SYSTEMS

	"	"	"	"	Kpucnkvkp"	O clpvpcpeg"	Kpur gevkp".....F kucugo dn{ ""P IC"
Eqptqmgf "Ceegu" \ qpg"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eqxgtu""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Etcpgu""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hqtmkhu""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ncf fgtu""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ucy j qtugu""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uechqrf u""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vqgdqctf ulUkf g'I wctf u""	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vtwwu"Y gdu"cpf 'Ej qtf u"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

✓ Check All Appropriate Boxes



## DESIGNATED FALL PROTECTION SYSTEMS CHECKLIST

	Kpucm vqp	O ckpgpcpeg	Kpur gevqp	F kcuugo dn	P IC
I wctf tcki U{ ugo u"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rgtuqpcn Hcm Ctt guv U{ ugo u"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uchgv{ 'P gv' U{ ugo u"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**✓ Check All Appropriate Boxes**

Cu" c" r qle{ "qh" ku" Ego r cp{ "Uchgv" cpf "J gcnj " Rtqi tco . " y g" Go r m{ gt" tgu t xgu" y g" tki j v" vq" r gtlkf lecm{ "gxcnvcg" go r m{ ggu" qp" gngo gpw" qh" y g" Ego r cp{ u" Hcm Rtqgevqp" Vtclpki " Rtqi tco 0" Kk' k' ku' f gvgto kpgf " y cvt gvtclpki " ku" pgeguuct{ . " k' y km' dg" r tqxkf gf " dghqtg" y g" go r m{ gg" eqp vpwgu" q" y qtn0

Vj g" Go r m{ gt" y km' tqw kpgn{ " gxcnvcg" ku" Hcm Rtqgevqp" Vtclpki " Rtqi tco 0' Kk' y gtg" ctg" cp{ " uli pkecpv" ej cpi gu" lp" y qtn' r tqegf vtgu" qt" lp" y g" hcm' r tqgevqp" gs wkr o gpv' dglpi " wugf . " go r m{ ggu" y km' dg" vclp gf " qp" y g" ej cpi gu0

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aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  
RtlpvGo r m{ gg" P co g"

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Go r m{ gg" Uki pcwtg"

aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  
Go r m{ gt" qt" Vtclpgt" Uki pcwtg"

aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  
Ego r cp{ 'P co g"

**Retain this form for your records**

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# **SECTION F**

# **CHECKLISTS**



[illegible]

"	"	"	"	"	"
FALL PROTECTION:	"	"	EQUIPMENT:	"	"
Y CTP R I 'N R GU'/'HNCI U.'TQRGU.'GVE+'	"	"	EQP F K V QP 'QH'NWI I GT U'	"	"
UCHGV[ "	"	"	DCEMWR'CNC TO U'	"	"
J CTPGUUGU(' 'NCP[ CTF "	"	"	ECDNGU'QP 'J Q RUV'UCHG"	"	"
NCFF GTU.'UECHHQNF U.'GVE"	"	"	UCHGV[ 'NCVEJ 'QP 'J QQM'	"	"
OQP K V Q T' I GUV"	"	"	"	"	"
I WCTFTCKU"	"	"	LADDERS:	"	"
"	"	"	RTQRTG'TNCF F GT'WUG"	"	"
KETTLES:	"	"	UGVWR'NQEC V QP 'RTQRTG'"	"	"
MGVVNGO CP 'Y GCT R I 'RTQRTG'GS WR'	"	"	RTQRTG'UNQRG'VQ'DWKNF R I "	"	"
MGVVNG'UGV'WR'RTQRTGN[ "	"	"	VKGF 'QHHC V'VQR"	"	"
LCQM'QP'VQPI WG"	"	"	586"CDQXG'VQR'UWRRTV"	"	"
N R 'QRGTC DNG'/'ENQUGF "	"	"	EQP F K V QP 'QH'NCF F GT"	"	"
VGO RGT C VWT G' I CWI G'QRGTC DNG"	"	"	NGXGN'HQQV R I "	"	"
VGO RGT C VWT G'TGCF R I 'QOM'	"	"	UECHHQNF 'RNC P MU'RTQRTG'"	"	"
HKT'G'GZ V R I WKUJ GT'RTGUGP V"	"	"	J CP F TCKU.'VQG'DQCTF "	"	"
QRGTC V R I 'RTQRTGN[ "	"	"	"	"	"
NR'N R GU'QOM'	"	"	ROOF TOP:	"	"
NR'VCP MU'WUGF 'RTQRTGN[ "	"	"	HKT'G'GZ V R I WKUJ GT'QRGTC DNG"	"	"
RTQRTG'UCHGV[ 'ECP 'HQT'HWGN"	"	"	GNGEVT HECN'EQT F UI TQWPF GF "	"	"
"	"	"	HKTUV'CF KMK'E QO RNGVG"	"	"
PERSONNEL:	"	"	CP[ 'TQQH'VQR'J C\ CTF U'	"	"
S WCNHKG' HKTUV'CF 'RTQX R GT Z'	"	"	J Q RUV'E QWP VGT'Y GK J V"	"	"
RTQRTG'FTGUU'UNGGXGU.'UJ QGU"	"	"	NWI I GTU'UCHG"	"	"
J CTF 'J CVU"	"	"	Y CTP R I 'N R GU'CP F 'DCTT HECF GU'WUGF "	"	"
RTQVGE V X G'GS WR O GP V"	"	"	J QVR R G'UGEWT GF "	"	"
F T R M R I 'Y CVGT"	"	"	HNGZ 'J QUG'QP 'J QVR R G"	"	"
Y CVGT'EWRU"	"	"	TQQH'QRGP R I U'E QXGT GF "	"	"
NHIG'N R GU"	"	"	ENGCT'QHRQY GT'N R GU'	"	"
UOQM R I 'P GCT'HNC O O CDNGU"	"	"	I WCTF U'QP'GS WR O GP V"	"	"
NH V R I 'RTQRTGN[ "	"	"	F WO R'EJ WVG'UGV'WR'UCHG"	"	"
O U F U'QP 'J CP F "	"	"	J QV'VTCP URQTVC V QP 'UCHG"	"	"
RTQRTG'I NQXGU'Y QTP "	"	"	J QWUGMGGRR R I "	"	"
Y QTM R I 'UCHGN[ "	"	"	"	"	"

**Remarks:**

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# OFFICE/SHOP SAFETY CHECKLIST

Ego rcp{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" Fcygaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

Nqecvkqp"aaa"

Uchgv{ "Kpur gevqt"aaa"

"	<u>L gu</u> "	<u>P q</u> "	"	<u>L gu</u> "	<u>P q</u> "
<b>GENERAL:</b>	"	"	<b>YARD:</b>	"	"
J QWUGMGRP I "	"	"	O CVGTICN'RTQRGTN[ "UVCEMGF "	"	"
GO GTI GP E[ 'F CVC'RQUVGF "	"	"	NRI 'UVQTF 'WRTK J V'6"UGEWTGF "	"	"
HRT'GXCEWCVQIP 'RNC'P'RQUVGF "	"	"	NRI 'CY C[ 'HTQO'DWKNF RPI "	"	"
HRT'G'ZVRPI WKJ GTU'RTGUGP V"	"	"	J C\ 'O CVGTICN'EGP VTCNK GF "	"	"
HRT'G'ZVRPI WKJ GTU'QRGTCDNG"	"	"	J C\ 'O CVGTICN'FQEWOP VGF "	"	"
UGEWTW[ 'RP URGEVQIP 'UEJ GF WNGU"	"	"	Y CUVGEQP VCI'P GTU'RTGUGP V"	"	"
CFGS WCVGNK J VRPI "	"	"	HNCO O CDNGNKS WEF URTQRGTN[ 'UVQTF "	"	"
	"	"	"	"	"
HRT'UV'CF 'VTCIP GF 'RGTUQP "	"	"	GS WRO GP VIXGI RENGU<"	"	"
UCHGV[ 'UK P U'RQUVGF "	"	"	F GHGEVXG'GS WRO GP V"VCI I GF "	"	"
O UF U'DQQMU"	"	"	XGI RENGU'UCHG[ 'EJ GEMGF "	"	"
"	"	"	HRT'G'ZVRPI WKJ GT'RP 'ECD"	"	"
<b>SHOP/WAREHOUSE:</b>	"	"	HRT'UV'CF 'RP 'ECD"	"	"
O CVGTICN'RTQRGTN[ "UVCEMGF "	"	"	ECD'TWDDKJ 'HTGG"	"	"
CKNGUIF QQTY C[ UWP QDUVTWEVGF "	"	"	XGI RENG'NH J VU'QRGTCDNG"	"	"
UJ QR'VQQN'UCHGV[ 'I WCTFU"	"	"	Y R'FUJ KGNF 'ENGCP "	"	"
GNGEVTIECN'EKT'EWU'I TQWPF GF "	"	"	VRT'GU'UCHG"	"	"
VGTO R'CN'DQZ GU'EQXGTGF "	"	"	NQCF 'UGEWTG"	"	"
QZ ICEGV'E[ N[ PFGT'UVQTCI G"	"	"	DCEM'WR'CNCTO U"	"	"
CTE'Y GNF RPI 'GS WRO GP V"	"	"	"	"	"
I TQWPF GF	"	"	NH J VU'QRGTCDNG"	"	"
I CUQNR G'6'CRRTQXGF 'ECP U"	"	"	QK'NGXGN'QM"	"	"
HRT'UV'CF 'GS WRO GP V'CXC'KCDNG"	"	"	O UF U'DQQMU"	"	"
XGP VKN'CVQIP 'CFGS WCVG"	"	"	"	"	"
G[ G'RTQVGEVQIP "WUGF "	"	"	"	"	"
"	"	"	"	"	"

## Remarks:

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Inspector



# ACCIDENT REPORT

EMPLOYER			
P co g<			
O cklpi 'Cff tguu<			
Nqecvqp. "if different from mail address:"			
INJURED EMPLOYEE			
P co g<		UqekniUgewtkf 'P q0<	
J qo g'Cff tguu<			
Ci g<	Ugz "(check one): <input type="checkbox"/> "O crg" <input type="checkbox"/> "Hgo crg"		Qeewr cklqp<
F gr ctvo gpv<			
THE ACCIDENT			
Ræeg'qh'Ceekf gpv<			
Y cu'r næg'qh'ceekf gpv'qp'go r mq { gtæ'r tgo kuguA*fl gu'qt'P q+ "			
Y j cv'y cu'yj g'go r mq { gg'f qklpi 'y j gp'lpwtgf A "			
"			
"			
Rj qqu'vcngp*fl gu'qt'P q+ "			
"			
OCCUPATIONAL INJURY OR OCCUPATIONAL ILLNESS			
F guetkdg'yj g'lpwt { "qt'knpguu<			
"			
P co g'yj g'qdlgev'qt'uwduxcpeg'yj lej 'f kgewf 'lpwtgf 'yj g'go r mq { gg<			
"			
F cvg'qh'lpwt { "qt'lpkknf kci pquku<			
"			
F kf 'yj g'go r mq { gg'f kgA*fl gu'qt'P q+ "			
"			
OTHER			
P co g'cpf "cf f tguu'qh'rj { ulekp<			
Klj qur kcrk gf . "pco g'cpf "cf f tguu'qh'j qur kcrk<			
Ceekf gpvtgr qtv'vq'yj qo <			
F kf 'yj g'lpwtgf 'igcxg'y qtmA*fl gu'qt'P q+ "	F cvg<	Vko g<	co lro <
F kf 'yj g'lpwtgf 'tgwtp'vq'y qtmA*fl gu'qt'P q+ "	F cvg<	Vko g<	co lro <
P co g'cpf "cf f tguu'qh'y kpguu<			
"			
Y cu'yj g'lpwtgf "cevkpi 'lp'tgi wrct'hpg'qh'f wfl A*fl gu'qt'P q+ "			
Y j cv'ugr u'j cxg'dggp'vcngp'vq'r tngxgpvc'uko krct'ceekf gpvA'			
"			
F cvg'qh'Tgr qt v<		Rtgr ctgf "d { "(Signature)-<	



# ACCIDENT INVESTIGATION WITNESS REPORT

Eqo r cp{ " "

Cfftguu" "

Rtqlgev" "

Fcvg" "

Y kpguu" " Vtcf g" "

Ci g" " Rj qpg" "

Cfftguu" "

UVCVGO GP V<K " J CXG'DGGP "GO RNQ[ GF "D[ "

" (COMPANY) UKPEG" " (DATE)

CPF "J CXG"VJ G'HQNNQY RPI "MP QY NGFI G'EQPEGTP RPI "R LWT[ "VQ"

" QP " " (DATE) " (TIME)

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UK PCVWTG"QH"Y K/P GUU" "



# EMPLOYER'S CHECKLIST: THE OSHA INSPECTION

*The following is being completed in anticipation of litigation.*

30' P co g'qh'EUI Q<aaaaaaaaaaaaaaaaaaaaaa"  
F cVgIVlo g'cttkxgf <aaaaaaaaaaaaaaaaaaaaaa"  
F cVgIVlo g'f gr ctwtg<aaaaaaaaaaaaaaaaaaaaaa"  
J cf "ugctej 'y cttcpvA<aaaaaaaaaaaaaaaaaaaaaa"

40' EU Q'UcVgu'v'j g'r vtr qug'qh'v'j g'"  
kpur gevqp"v"dg<"  
  
Rtqi tco o gf "v{r g+<aaaaaaaaaaaaaaaaaaaaaa"  
Wprtqi tco o gf "v{r g+<aaaaaaaaaaaaaaaaaaaaaa"  
Hqewugf "v{r g+<aaaaaaaaaaaaaaaaaaaaaa"

50' EU Q'UcVgf 'v'j g'ueqr g'qh'v'j g'kpur gevqp"  
" y km'dg<"  
  
" Ego r tgj gpukxg<aaaaaaaaaaaaaaaaaaaaaa"  
" Rctvkn'y kj 'hqw'u'qp<aaaaaaaaaaaaaaaaaaaaaa"  
" Tgxkgy 'qh'egt vlp'tgeqtf ulr tqi tco u."  
" uwej "cu<aaaaaaaaaaaaaaaaaaaaaa"  
" Hqewugf "aaaaaaaaaaaaaaaaaaaaaa"

60' F wtkpi 'v'j g'kpur gevqp.'EUI Q'kpur gevqf<"  
" Ctgc u.'uwej "cu<aaaaaaaaaaaaaaaaaaaaaa"  
" Gs wkr o gpv.'uwej "cu<aaaaaaaaaaaaaaaaaaaaaa"  
" Tgeqtf u.'uwej "cu<aaaaaaaaaaaaaaaaaaaaaa"  
" Rtqi tco u.'uwej "cu<aaaaaaaaaaaaaaaaaaaaaa"

70' F wtkpi 'v'j g'kpur gevqp.'EUI Q'kpvgtxlgy gf<"  
Name/Duty: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

80' F wtkpi 'v'j g'kpur gevqp.'EUI Q'vqmq<"  
" Rj qvqi tcr j u'qh<aaaaaaaaaaaaaaaaaaaaaa"  
" Xkf gqu'qh<aaaaaaaaaaaaaaaaaaaaaa"  
" Uco r rgu'qh<aaaaaaaaaaaaaaaaaaaaaa"  
" Y tkvqp'ucvgo gpw'ltqo <"aaaaaaaaaaaaaa"  
" Qvj gt<"aaaaaaaaaaaaaaaaaaaaaa"

90' Dghgtg'v'j g'kpur gevqp.'EUI Q'y cu'o cf g"  
" cy ctg'qh'tcf g'ugetgw'lp'tgi ctf u'vq"  
" aaaaaaaaaaaaaaaaaaaaaaa"

: 0' Vj g'hmqy kpi 'r gqr rg'y gtg'r tgugpv"  
" f wtkpi 'v'j g'kpur gevqp<"

Name/Duty: \_\_\_\_\_

aaaaaaaaaaaaaaaaaaaaaa  
aaaaaaaaaaaaaaaaaaaaaa  
aaaaaaaaaaaaaaaaaaaaaa  
aaaaaaaaaaaaaaaaaaaaaa

; 0' Chgt 'v'j g'kpur gevqp.'EUI Q'UcVgf<"  
" P q'xlqr vqp<aaaaaaaaaaaaaaaaaaaaaa"  
" Y qwf'tgeqo o gpf 'ekcvqp'lp'tgi ctf u'vq<"  
" aaaaaaaaaaaaaaaaaaaaaaa"  
" Qvj gt<aaaaaaaaaaaaaaaaaaaaaa"

320'Y kj lp'aaaaa'f c{ u'chgt 'kpur gevqp.'tgegxgf ""  
" ekcvqp'u+ltq"  
" aaaaaaaaaaaaaaaaaaaaaaacpf 'r quvgf "  
" v'j g'ekcvqp"qp'aaaaaaaaaaaaaaaaaaaaaa"

330'kphqto crlEqphgtgpeg'aaaaaaaaaaaaaaaaaaaaaa"

340'Vj g'ekcvqp'y culy cu'pqv'eqpvugf Qaaaaaaaa"

O ktko 'L0O eMgpf cm'Gus wltg"  
Uj gtdwtpg.'Rqy gtu'(' P ggf j co .'R0E'  
Qpg'Dgceqp'Utggv"  
Dquqp.'O C'2432: "  
839/745/4922"







# GENERAL CONSTRUCTION SITE SAFETY & HEALTH CHECKLIST

## 1. GENERAL SAFETY AND HEALTH

- c+" Ctg'i gpgtcn] qwugnggr lpi "eqpf kkpup"ucvuhcevt { A'
- d+" Y cuv"eqpckpgtu'r tqxkf gf "cpf "wugf A'
- e+" Ctg"htg"] c| ctf u'etgcvgf "dgecwug"qh'uetcr A'
- f+" Kt'ewtgpv'huv'qh'go gti gpe{ 'r j qpg'pwo dgtu"qp"ukgA'
- g+" Ctg'o gf lecn'uw r rkgu'cf gs wcv"cpf 'lp'i qpf "eqpf kkpA'"
- h+" Ctg'y cvgt"eqpckpgtu'cf gs wcv"cpf "ucpkct { A'
- i+" Ctg"vkgv'hcekkgu'cf gs wcv"cpf "ucpkct { A'
- j+" Ctg"pqkug"hxgu"gzegukxgA'
- k+" Kt'g{ g'r tqvgevqp"cf gs wcvA'
- l+" Cp{ 'cr r ctgpv'f wuv"i cu."qt"j c| ctf qwu'o cvgtkcn'r tqdrgo u'gxkf gpvA'
- m+" Ctg'y qtno gp"wukpi 'r tqrgt 'hukpi "vej pls wguA'

## 2. PERSONAL PROTECTIVE EQUIPMENT

- c+" Ctg"] ctf "j cuw'wugf 'kp"j c| ctf qwu'ctgcuA'
- d+" Kt'gct'r tqvgevqp"dglpi 'y qtp'y j gp'tgs wkt gf A'
- e+" Kt'g{ g'r tqvgevqp"cxckrdng"cpf "dglpi "wugf A'
- f+" Ctg'tgur ktcvqtu"cpf lqt'r tqvgevkg'emvj lpi "dglpi "wugf 'y j gtg'tgs wkt gf A'
- g+" Ctg"uchgv{ "j ctpguugu."cpf "rnp{ ctf u'cpf lqt "hknkpgu"lp"wugA'E qpf kkpup"ej gengf A'
- h+" Kt'r tqrgt'emvj lpi "uj ktu."r cpvu."i npxgu."uj qgu+y qtp"d{ 'y qtngtuA'
- i+" Kt'hgwgo cp'y gctkpi 'hceg"uj kgrf A'

## 3. FIRE PROTECTION

- c+" Kt'y cvgt'uw r n{ "cxckrdng"cpf "ku'k'cf gs wcvA'"
- d+" Ctg"uw'helgpv'gzvki wkuj gtu"cxckrdngA"kp"qr gtcvki "eqpf kkpA'"
- e+" Cp{ 'htg"] c| ctf u'lp'y qtm"uqtci g."qt"uj gf "ctgcuA'"
- f+" Ctg'hco o cdng'iks wkt u'r tqrgtn{ "uqtgf "cpf "kf gpv'hkgf A'
- g+" Kt'tghwgdpi "f qpg'lp"e'uchg"ctgcA'"
- h+" Kt'gs wkr o gpv'uj w'f qy p'hqt'tghwgdpi A"Kt'i tqwpf lpi "cf gs wcvA'"



# GENERAL CONSTRUCTION SITE SAFETY & HEALTH CHECKLIST

i + " K'NR'I cu'eqpckpgt'uqtci g'ucukcevt { A'K'tghwgnpi 'f qpg'lp'cp'qr gp'ctgcA'"

j + " Ctg'vgo r qtct { 'j gcvgtu'mecvgt 'cv'c'uchg'f kucpeg'ltqo 'eqo dwukdnguA'

k" K'xgpkwckp'cf gs wcv'ht'cf j gukxgu'cpf 'hco o cdng'hs wkf uA'

l+" Ctg'ngwgu'qr gtcvgt 'uchgn { . 'cpf 'cv'c'uchg'f kucpeg'ltqo 'y g'dwkrf kpi A'

## 4. SIGNS, SIGNALS, BARRICADES

c+" Ctg'cf gs wcv'\$F cpi gt'\$'cpf '\$Eckwkp'\$'uki pu'r quvgf A'

d+" Ctg'vci u'wugf 'v'q'mem/qw'grgextecr'gs wkr o gpvA'

e+" K'f ghgckxg'gs wkr o gpv'vci i gf A'

f + " Ctg'cf gs wcv'xgi lewrt'cpf 'r gf gukcp'tchke'uki pu'cxckrdngA'Ctg'y g { 'r tqr gtn { 'r megf A'

g+" Ctg'hcu j gtu.'uki pcn.'qr gtcvki 'r tqr gtn { A'

h" 'Ctg'uchgv { 'y cvej 'r gtuqppgnr tqr gtn { 'gs wkr r gf 'cpf 'f qkpi 'cp'ghgckxg'lqdA'

i + " Ctg'dcttlecf gu'cf gs wcv.'cpf 'ctg'y gtg'cf gs wcv'y ctpkpi 'uki pu'cpf 'hki j uA'

j + " K'c'y ctpkpi 'hpg'u { ugo 'lp'r megA'K'k'dgkpi 'wugf 'r tqr gtn { A'

## 5. MATERIAL HANDLING AND STORAGE

c+" Ctg'o cvgtkcu'r tqr gtn { 'ucengf A'

d+" Ctg'tqqh'hqcf 'hko ku'dgkpi 'qdugtvgf A'

e+" Tk i kpi 'gs wkr o gpv'ej gengf 'cpf 'lp'i qqf 'eqpf kkpA'

f + " Ctg'tqr gu.'urkpi u.'gve0lp'i qqf 'eqpf kkpA'

g+" Ctg'ej wg'qr gpkpi 'r tqvgvgf 'cpf 'dcttlecf gu'cf gs wcv'ht'f tqr r kpi 'y cvgA'

## 6. TOOLS

c+" Eqpf kkp'qh'j cpf 'vqnuA'

d+" Ctg'r qy gt'vqnni wctf u'cf gs wcvA'

e+" Ctg'r pgwo cve'vqnn'uchgv { 'f gxkegu'qr gtcvki A'

f + " K'eqo r tguvgf 'ck'wugf 'ht'engcplpi A'

g+" Ctg'r qy gt'cewcvgt 'vqnn'uchgvku'y qtnkpi A'

h" Ctg'cm'vqnn'dgkpi 'wugf 'uchgn { A'

4222'Tgxkugf 'xgtukqp"



# GENERAL CONSTRUCTION SITE SAFETY & HEALTH CHECKLIST

## 7. WELDING AND CUTTING

- c+ Ctg'e{ nkp gtu'ugewt gf ACtg'ecr u'lp'r nregA'
- d+ Ctg'j qugu'cpf 'pq| | ngu'lp'ucvukcevt { 'eqpf kkpA'
- e+ Ctg'cte'y grf lpi 'ecdngu'lp'i qpf 'eqpf kkpA'Ku'gs wkr o gpv'i tqwpf gf A'
- f+ Ku'cte'y grf lpi 'y qtnlr tqr gtn { 'uj kgrf gf A'Ku'g { g'r tqvewkp 'cf gs wcvA'
- g+ Ctg'y gtg'cp { 'xgpvkrvqp'r tqdrgo uA''
- h+ F qgu'y qtnletgcvg'c'htg'j c| ctf ACtg'cf gs wcv'gz vpi wkuj gtu'cxckrdrgA'
- i+ Ku'y g'htg'y cvej 'cf gs wcvA'
- j+ Cp { 'vqzle'o cvgtknu'dglpi 'y grf gf A'

## 8. ELECTRICAL

- c+ Ku'r tqvewkp 'cf gs wcv'ht'j ki j 'xqnci g'gzr quwt guA'
- d+ Ctg'r qtvdrg'cpf 'r qy gt 'vqqu'i tqwpf gf A'
- e+ Ku'go r qtct { 'y ktpi 'lp'i qpf 'eqpf kkpACtg'vgt o kpcn'dqz gu'eqxgt gf A'
- f+ Cp { 'ur ctnkpi 'grgewlecn'gs wkr o gpv'lp'ctgcu'y kj 'f wuv' hwo g. 'qt' hno o cdrg' rks wlf 'gzr quwt gA'
- g+ Ctg'cm'gzvgpukp'eqtf u'y tgg'y ktg'cpf 'i tqwpf gf A'
- h+ Ctg'I HEKu'pgeguuct { lts wkt gf A'

## 9. LADDERS AND SCAFFOLDING

- c+ Cp { 'f ghgevkg'gs wkr o gpvA''
- d+ Ctg'rcf f gtu'ugewt gf ACpf 'gzvgpf gf '5)'cdqyg'tqqh'rgxgnA''
- e+ Ctg'y gtg'cf gs wcv'j cpf tcknu'cpf 'vqgdqctf uA''
- f+ Ku'uechhqr 'dtcelpi 'cf gs wcvA''
- g+ Ku'uy lpi lpi 'uechhqr 'tqr g'lp'i qpf 'eqpf kkpA''
- h+ ^Xcu'r tqr gt 'tcklpi 'hqt'y cvv { r g'qh'uechhqr 'f qpgA''
- i+ Ku'y gtg'c'eqo r gvgpv'r gtuqp'qp/ukgA''
- j+ Ctg'y qtnkpi 'ctgcu'htgg'qh'f gdtkuA''
- k+ Ku'uechhqr lpi 'vkgf 'lpA'

4222Tgxkugf'xgtukqp"



# GENERAL CONSTRUCTION SITE SAFETY & HEALTH CHECKLIST

## 10. ROOF DECK AND ROOF OPENINGS

- c+" Ctgi wctf tcku'r tqxkf gf "ctqwpf "cm'tqqh'qr gplpi uA"
- d+" Ctg'qr gp/ukf gf 'tqqh'ctgcu'cf gs wcvgn' 'r tqvgevaf A'
- e+" Ctg'j cpf tcku'r tqxkf gf "qp'wckty c{ uA"
- f+" Ctg'tqqh'qr gplpi u'eqxgtgf 'r tqr gtn{ A'
- g+" K'tqqh'f genlpuwcnv'kqp'eqo r r'gvg'cpf "ugewtgA"
- h+" Ej genlwpf gtukf g'qh'tqqh'f genlhqt "eqpf wku. "gve0'

## 11. CRANES, DERRICKS

- c+" Ctg'ecdngu'cpf "uj gcxgu'ej gengf A"
- d+" Ctg'ukpi u.'j qqmu'cpf "g{ gu'ej gengf A"
- e+" Ctg'iqcf "ecr cekku'r quvgf A"
- f+" Ctg'r qy gt "hpgu'cv'c'uchg'f kucpegA"
- g+" C0g'qwtki i gtu'wugf 'y j gp'pggf gf A'
- h+" Ecp'qr gtcvt "engctn{ "ugg'uki pcnu'htqo "uki pcm gpA"

## 12. MATERIAL HOISTS, ELEVATORS, CONVEYORS

- c+" K'mqcf "ecr cek{ "mpqy p"cpf "qdugtvgf A"
- d+" K'ecdngltqr g'lp'i qqf "eqpf kklpA"
- e+" Ctg'qr gtcvpi "twgu'wpf gtuvqqf "cpf "hmqy gf A"
- f+" Ctg'j qkwy c{ "gptcpegu'cf gs wcvgn' 'r tqvgevaf A'
- g+" Ctg'cf gs wcvg'go gti gpe{ "uqr u'r tqxkf gf "hqt "eqpxg{ qtuA"
- h+" Ctg'j qkuu'o clpvclpgf 'lp'c'uchg'qr gtcvpi "eqpf kklpA"

## 13. MECHANIZED EQUIPMENT

- c+" Cf gs wcvg'tqm/qxgt 'r tqvgevklp"cpf "ugcv'dgmu'hqt "gs wkr o gpvA"
- d+" Ctg'dcem'wr "cncto u'qr gtcvpi A"
- e+" Uchgv{ 'ej genlo cf g'qh'dtcngu. "eqwr rpi u. "qr gtcvpi "eqptqnu. "gve0A"
- f+" Ctg'j cwltqcf u'cpf lqt 'tqqh'r cvj y c{ u'r tgr ctgf "cpf "o clpvclpgf A"
- g+" Ctg'uchg'qr gtcvpi "ur ggf u'qdugtvgf "cpf "eqptqmgf A"

4222Tgxkugf "xgtukqp"



## 11

[illegible]

!!



# SCAFFOLD INSPECTION CHECKLIST #1 - GENERAL

RtqlgeVP co g" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaGtgevf "D{ <aaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

Rtqlgev%" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""F cvg<aaaaaaaaaaaaaaaaaaaaa "

Uwr gtXuqt" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

## GENERAL SAFETY REQUIREMENTS

YES NO

30""J cu'yj g'uechhqr "dggp"eqputwevgf "cpf "hcf gf "kp"ceeqtf cpeg'y kj "yj g'f guki p"qh'c" s wcrhkf "r gtupq"cpf "c"uchgv "hcevt "qh'6"q"3A"	"	"
40""Kl'yj g'uechhqr "r rvhqt "hwnf "r rpnngf "y kj "rguu'yj cp"3\$"dgw ggp"r rpnmu"qt "dgw ggp" r rpnmu"cpf "yj g'wr tki j uA"	"	"
50""Y j gtg'yj g'go r rj { gt "ecp"fgo qputcvg'yj g'pgeguukf . "ku'yj g'i cr "dgw ggp"ruv'r rpnmi" cpf "yj g'wr tki j u'rguu'yj cp"; "3 4"lpej guA"	"	"
60""Ctg"cmly qtnkpi "r rvhqt u'cv'rgcu'3: "lpej gu'y kf gA"	"	"
70""Ctg'r rvhqt u'yj cv'ctg'rguu'yj cp"3: "lpej gu"Xkf g'r tqlgevf "d{ "i wctf tcknu{ ugo u'qt" ctg"go r rj { ggu'r tqvevgf "d{ "r gtupcn'hcm'cttguv'u{ ugo uA"kp"ceeqtf cpeg'y kj " 3; 480/24"qt "ucvg'tgs wkt go gpw+ "	"	"
80""Ctg'yj g'qr gp"ukf gu'qh'yj g'uechhqr "rguu'yj cp"36"lpej gu'htqo "yj g'hceg"qh'yj g'y qtmA"	"	"
90""Kl'qr gp"ukf gu'ctg'o qtg'yj cp"36"lpej gu'htqo "yj g'hceg"qh'yj qtm'y kn'hcm'r tqvevkap"dg" wugf A"	"	"
: 0' Ctg'r rvhqt u'gkj gt "gzvgpf lpi "qxtg"yj g'egpvtrkpgu'qh'yj gk "uwr r qtu'd{ "cv'rgcu'8" lpej gu'qt "engcvf . "qt "tguclkgf "d{ "j qquA"	"	"
; 0""Y j gtg'yj g'r rvhqt "ku'rguu'yj cp"32"hggu'qpi "cpf "gzvgpf u'o qtg'yj cp"34"lpej gu'qxtg" yj g'uwr r qtv"j cxg'i wctf tcku'dggp"lpucngf A"	"	"
320Y j gtg'r rvhqt u'ctg'o qtg'yj cp"32"hggu'qpi . "f q'yj g{ "pqv'gzvgpf "o qtg'yj cp"3: " lpej gu'qxtg"yj g'uwr r qtuA"	"	"
330Y j gtg'yj g'r rvhqt u'ctg'o qtg'yj cp"32"hggu'qpi "cpf "gzvgpf "o qtg'yj cp"3: "lpej gu" qxtg"yj g'uwr r qtv"j cxg'i wctf tcku'dggp"lpucngf A"	"	"
340Ctg"cm'cdwugf "r rpnmu'tguvpi "qp"ugr ctcvg"uwr r qtv'uwrhceguA"	"	"
350Ctg'r rpnmu'qxtgr r r gf "qxtg"uwr r qtuA"	"	"
360Ctg'yj g'qr "cpf "dqvqo "uwrhcegu"qh'uechhqr "r rpnmu'xkukdg"cpf "htgg"htqo "r clpv'qt" qvj gt "qr cs wg'eqxgtkpi uA"	"	"

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4222T gxkugf "xgtukqp"

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# SCAFFOLD INSPECTION CHECKLIST #1 - GENERAL

370Y j gtg'uechhqrnf 'eqo r qpgpw'htqo 'f hgtgpv'o cpw'cewtgtu'ctg'wugf . 'f q'vj g{ 'hk' vqi gjt 'y kj qw'hqteg'cpf 'j cu'vj gk 'wug'dggp'f gvgto kpgf 'vq'dg'uchg'd{ 'c'eqo r gvgpv' r gtuqpA'	"	"
380J cu'c'eqo r gvgpv'r gtuqp'cr r tqxgf 'cp{ 'wug'qh'f kuuko kxt'o gvcnuA'	"	"
390Y j gtg'uechhqrnf u'f q'pqv'o ggv'vj g'6'vq'3'dcug'vq'j gki j v'lcvkq.'ctg'vj g{ 'ugewt'gf 'd{ 'vj g' wug'qh'vkguA'	"	"
3: 0J cxg'vkgu'dggp'lpucmgf 'cv'c'j qtk qpvcn'o go dgt 'vj cv'wrr qtw'vj g'lpptg'cpf 'qwggt' rgi uA'	"	"
3: 0J cu'vj g'htuv'xgtv'ecr'vkg'dggp'lpucmgf 'cv'c'j gki j v'rguu'vj cp'6'vko gu'vj g'o kpklo wu' dcug'f'ko gpukqpA'	"	"
420J cxg'xgtv'ecr'vkgu'dggp'tgr gcwgf 'gxgt{ '42'hggv'qt'rguu'hqt'uechhqrnf u'vj cv'ctg'5'hggv'qt' rguu'kp'y kf vj A'	"	"
430J cxg'xgtv'ecr'vkgu'dggp'tgr gcwgf 'gxgt{ '48'hggv'qt'rguu'hqt'uechhqrnf u'vj cv'ctg'o qtg' vj cp'5'hggv'y kf gA'	"	"
440Ctg'vkgu'lpucmgf 'cv'gcej 'gpf 'qh'vj g'uechhqrnf 'utwewtg'cpf 'cv'pq'o qtg'vj cp'52'hqqv' j qtk qpvcn'lpvgtxcnuA'	"	"
450Ctg'uechhqrnf u'gtgevgf 'qp'hko 'hqwpf cvkqpuA'	"	"
460Ctg'hqqv'kpi u'cdrg'vq'wrr qtv'cv'rgcu'6'vko gu'vj g'o czko wo 'lpvgpf gf 'rjcf 'y kj qww' ugwrkpi A'	"	"
470Kj'vj g'uechhqrnf 'utwewtg'r nwo d'cpf 'dtcegf 'vq'r tngxgpv'cp{ 'uy c{ kpi 'qt' f kur ncego gpvA'	"	"

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4222Tgxkugf 'xgtukqp"

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# SCAFFOLD INSPECTION CHECKLIST #2 – PROPER USE OF SCAFFOLDS

RtqlgevP co g" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaGtgevf "D{ <aaaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 Rtqlgev%" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""F cvg<aaaaaaaaaaaaaaaaaaaaa"  
 Uwr gtxluqt" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

SCAFFOLD USE"	YES"	NO"
Ctg'uechhqr u'cpf "eqo r qpgpu'iqcf gf "y kj kp"vj gkt "tcvgf "ecr cekkguA"	"	"
J cu"vj g'uechhqr "dggp"lpu r gevgf "d{ "c"eqo r gvgpv'r gtuqp"cu'tgs vkt gf A"	"	"
J cxg'uechhqr u'y j lej "ctg"qeewr kgf "dggp"r tqj kdkgf "htqo "o qxgo gpvA"	"	"
Ctg'urk r gt { "eqpf kkpqu"qp"uechhqr u'eqttgevgf "dghqtg"y qtngtu"ctg"r gto kwgf "vq"vug" vj go A"	"	"
Y j gtg"uvqto { "eqpf kkpqu"qt"j ki j "y kpf u"gz kuv"j cu"vj g'eqo r gvgpv'r gtuqp"dggp"" eqpuwngf "cpf "y kpf "uetggpu"qt"r gtuqpcn'hcmttguv'u{ ugo u"dggp"r wv"vq"vugA"	"	"
Ctg"vj g'uechhqr u'ngr v'htgg"htqo "f gdt kuA"	"	"

SCAFFOLD USE"	YES"	NO"
Ki'uchg"ceegu'r tqxkf gf "hqt"cm'uechhqr "r rvhqtu u'vj cv'ctg"o qtg"vj cp"4"hggv'cdqxs"qt" dgrqy "vj g'r qkp'v'qh'ceeguA"	"	"
J cxg'etquudtcegu"dggp"r tqj kdkgf "cu"o gcpu'qh'ceegu"vq"vj g'uechhqr "r rvhqtu uA"	"	"
J cxg'rcf f gtu"dggp"r qukkapgf "uq"cu'pqv"vq"vr "vj g'uechhqr A"	"	"
Ki"vj g'dqvqo "t wpi "qh"vj g'rcf f gt "rguu"vj cp"46"lpej gu'cdqxs"vj g'uvr r qt v'pi "uwrhcegA"	"	"

FALL PROTECTION"	YES"	NO"
Ctg'i wctf tcku."lpenf lpi "o kf tcku"lpucmgf "qp"cm'qr gp"ukf gu"cpf "qr gp"gpf u"qh"vj g" r rvhqtu A"	"	"
Ctg'i wctf tcku."lpucmgf "cv"j gki j v'qh'dgwy ggp"58\$"cpf "67\$A"	"	"
Fqgu"vj g'i wctf tcku'u{ ugo "o gg"vj g'pgeguuct { "utgpi vj "tgs vkt go gpwA"	"	"
J cxg"vqgdqctf u"dggp"lpucmgf "vq"r tgxgpv'qdlgeu"htqo "hmkpi "htqo "uechhqr uA"	"	"
Y j gtg"pgeguuct { ."j cxg"uetggpu"dggp"lpucmgf "vq"r tqvgev'y qtngtu"htqo "hmkpi "qdlgeuA"	"	"
C0g"vqgdqctf u'cv'rgcu"5"3 4"lpej gu"j ki j A"	"	"
J cu"vj g'i gpgtcn'r wdrk"dggp"cf gs wcvgn' "r tqvgevgf A"	"	"

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4222"T gxkugf "xgtukqp"

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# SCAFFOLD INSPECTION CHECKLIST #3 – MOBILE SCAFFOLDS

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RtqlgevP co g" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaGtgev f "D{ <aaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

Rtqlgev%" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""F cv<aaaaaaaaaaaaaaaaaaaaa "

Uwr gtXuqt" aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

MOBILE SCAFFOLDS"	YES"	NO"
30Á Ct g'htco gu'ugewt g' "d{ "dtcegu."y j lej "r tqxkf g'rcvgtcn'lw r qt v'vq"vj g'xgt vlecn' o go dgtu'qh'vj g'uechhqr f A"	"	"
40Á F q"vj g'dtcegu'hwpev kq p"vq"cwqo c vlecm{ "us wct g"cpf "cnk p"vj g'htco guA"	"	"
50Á Ct g'cm'qh'vj g'dtceg"eqppgevkpu'ugewt g'f A"	"	"
60Á Ct g'ecvgtu'rqengf "f wt lpi "uechhqr f "wugA"	"	"
70Á Y j gp"o qxkpi "vj g'uechhqr f . "ku"vj g'pgeguuct { "hqteg"cr r nkf "cu'emqug"vq"vj g'dcug"cu" r quikdrgA"	"	"
80Á Ct g'vj g'uechhqr f u'ucdkrk gf "vq"r t g xgpv"vj g'r quikdkrk{ "qh'w r lpi "qxgt "y j kg"dglpi " o qxgf A"	"	"
90Ct g'vj g'ecvgtu'r kppgf "kp"vq"gkj gt"vj g'htco gu"qt "vj g'cf lwuwo gpv'uetgy uA"	"	"

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4222T g xkugf "xgtukq p"

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# RESPIRATORY PROTECTION INSPECTIONS CHECKLIST

## DISPOSABLE RESPIRATORS

aaaaaaaa "K"ij g'tgur kcvqt 'htgg'qh'j qngu'qt'vgctuA"

aaaaaaaa "U"ter 'j cu'tgvckpgf 'ku'gruvckm A"

aaaaaaaa "F"qu'ij g'o gvcn'pqug'enr "cmjy "c'r tqr gt 'hkvA"

## AIR-PURIFYING RESPIRATORS

aaaaaaaa "F"qu'ij g'hceg'r kgeg'j cxg'ku'qtki kpcn'hqto "cmjy kpi "c'r tqr gt 'hkvA"

aaaaaaaa "K"ij g'hceg'r kgeg'htgg'qh'etcemu'qt'vgctuA"

aaaaaaaa "K"ij g'hceg'r kgeg'engcpA"

aaaaaaaa "C"tg'ij g'j gcf "utcr u'gruvck. 'htgg'qh'vgctu'cpf "dtqngp"dwemguA"

aaaaaaaa "K"ij g'gzj crvckp"xcvkg'engcpA"

aaaaaaaa "C"tg'ij g'gzj crvckp"cpf "kpi crvckp"r ctu'htgg'qh'etcemu. "vgctu. "qt "f kvqt vckp"

aaaaaaaa "K"ij g'r tqr gt 'hkvgt "dglpi "wugf A"

## ATMOSPHERE-SUPPLYING RESPIRATORS

aaaaaaaa "F"qu'ij g'hceg'r kgeg'j cxg'ku'qtki kpcn'hqto "cmjy kpi "c'r tqr gt 'hkvA"

aaaaaaaa "K"ij g'hceg'r kgeg'htgg'qh'etcemu'qt'vgctuA"

aaaaaaaa "K"ij g'hceg'r kgeg'engcpA"

aaaaaaaa "C"tg'ij g'j gcf "utcr u'gruvck. 'htgg'qh'vgctu'cpf "dtqngp"dwemgu"

aaaaaaaa "K"ij g'gzj crvckp"xcvkg'engcpA"

aaaaaaaa "C"tg'ij g'gzj crvckp"cpf "kpi crvckp"r ctu'htgg'qh'etcemu. "vgctu. "qt "f kvqt vckpA"

aaaaaaaa "K"ic'j qqf "qt"j gm gv'ku'wugf. "ku'ij g<"

          "aaaaaaaa "U"ur gpukqp'cf lwugf 'hqt'ij g'y gctgtA"

          "aaaaaaaa "H"ceg'uj kgrf 'htgg'qh'etcemu'qt'dtgcmuA"

aaaaaaaa "K"ij g'ck's wcrkv "r tqxkf gf "d{ "ij g'eqo r tguuqt "qt "qvj gt "f gxleg"dtgcij cdrngA"

aaaaaaaa "C"tg"cm'eqppgevkpu"ki j vA"

aaaaaaaa "C"tg'tgi wcrvqtu'ugv'ceeqt f kpi "q"ij g'o cpw'cewtgtu'ur gekh'ecvkpuA"

aaaaaaaa "C"tg'j qugu'htgg'qh'hkpmu. "vgctu. "qt "etcemuA"

4222 "Tgxkugf "xgtukqp"



**SECTION G**

**EDUCATION &  
TRAINING**



# HOW TO GIVE A TOOL BOX TALK

## 1. GENERAL

É Ego o wplecvkp "ku"qpg"qh'yj g'dguv'y c{ u'vq'r t g x g p v'ceekf g p u 0 [ q w'f q p ) j' c x g'vq'dg'c'r t q h g u k q p c n' u r g c n g t'vq'i k x g'c'i q q f'vq q r d q z'v c m 0

## 2. THE AGENDA

ÉÁ M p q y "{ q w t'v q r l e"  
ÉÁ R r c p "{ q w t'c i g p f c"  
ÉÁ N g c f "c'f k u e w u k q p"  
ÉÁ W u g'c e w c n'g s v k r o g p v'y j g t g x g t'r q u k d n g"  
ÉÁ K u w u t c v g "{ q w t'r q k p u"  
ÉÁ E q q t f k p c v g'j c p f / q w' r k g t c w t g"  
ÉÁ N k o k'v j g' n g p i v j' q h' { q w t'r t g u g p v c v k p"  
ÉÁ C m q y 'h q t' s w g u k q p u' c p f' c p u y g t u"  
ÉÁ W u g' x k u w c n' g z c o r n g u"  
ÉÁ F q'c'y t c r / w r "  
ÉÁ T g k p h q t e g'v j g' l o r q t v c p v' r q k p u"  
ÉÁ V j c p m i' { q w t' e t g y 'h q t' v j g k t' l p v g t g u v' c p f' g p v j w u k c u o "

## 3. THE FORMAT

ÉÁ U c t v'v j g' o g g v k p i 'q w' q p' c' r q u k k x g' p q v g' "  
ÉÁ Y g r e q o g' { q w t' e t g y' "  
ÉÁ R t q o q v g' v g c o 'y q t m' "  
ÉÁ I k x g' g x g t { q p g' v j g' q r r q t w p k v' { 'v q' i g v' v q i g v j g t' c p f' g z e j c p i g' k f g c u 0 "  
ÉÁ D g' u w t g' v q' e q o r n k o g p v' c' l q d' y g m i f q p g' "  
ÉÁ M e g r 'k' l p h q t o c n' "  
ÉÁ W u g' { q w t' q y p' y q t f u' "  
ÉÁ F q' y j c v' k u' e q o h q t v c d n g' h q t' { q w' "  
ÉÁ K p x k g' r g q r n g' v q' r c t v k e k' c v g' "  
ÉÁ I g v' r g q r n g' v q' v j k p m i c d q w' u c h g v' { r t q d n g o u' "  
ÉÁ P c o g' r q v g p v k e n' j c | c t f u' c p f' y j c v' v q' f q' c d q w' v j g o' "  
ÉÁ Q h g t' u w i i g u k q p u' v q' l o r t q x g' u c h g v' "  
ÉÁ W u g' q r g p / g p f g f' s w g u k q p u'



# HOW TO GIVE A TOOL BOX TALK

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## 4. THE TOPIC

É' Ej qqug'wko gn' 'vqr leu"  
 É' Tgxkgy 'tgegpv'kplwtlgu"  
 É' Tgxkgy 'tgegpv'uchgv' 'xkqrckapu"  
 É' Tgxkgy 'wre qo kpi 'y qtniuej gf wrg"  
 "

## 5. THE PLACE AND TIME

É' J qrf "c"vqqr'dqz "o ggkpi "cv'tgi wrct "kpgtxcnu"  
 É' J qrf "c"o ggkpi "kp" { qwt "y qtn'ctgc"  
 É' Hktuv'j kpi "kp" 'y g'o qtpkpi /ngcu'kpgttwr ckapu"  
 É' O ggkpi u'y knipqv'j gr "wprguu" { qwj qrf "y go "TGI WNCTN[ "  
 É' Mgrgr "o ggkpi 'o kpwgu'qh'f kuewukpukqr leu"  
 É' Cn'cwpgf ggu'uj qwr'f "uki p'cwpgf cpeg" f qewo gpv"  
 "

## 6. SAMPLE TOPICS FOR TALKS

ÉÁ HcmiRtqvgevkqp"  
 ÉÁ Rgtuqpcn'Uchgv' "  
 ÉÁ Ncf fgtu'cpf "Uechhqrf u"  
 ÉÁ J qknu'cpf "Ej wgu"  
 ÉÁ Rgtko gvg'cpf "Tqqh'Qr gpkpi "Rtqvgevkqp"  
 ÉÁ Mgwrgu."Vcpngtu."cpf "Vtckrgtu"  
 ÉÁ Ego r tguugf "I cu'E { rkp fgtu"  
 ÉÁ Grgevtkecn'Eqt f u'cpf "Vqqnu"  
 ÉÁ J c| ctf "Ego o wplecvkqp"  
 "

## 7. REFERENCES

ÉÁ PGTEC"  
 ÉÁ QUI C"  
 ÉÁ PTEC"  
 ÉÁ Nqecn'Qti cplk ckapu'o "Nkdtctlgu"  
 "

"

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# SAMPLE SAFETY MEETING AGENDA

## PREPARATION: *\*Hltxc kcdig'j c xg'yj g'hqmqy lpi +'*

É XET"cpf "o qpkqt "

É Ugwłpi "wr "c"Łqdukg"Uchgn /xkf gq"

É P qvgr cf u'cpf "r gpeku'łqt "pqvg/vcnłpi "

É Hłr "ej ctv'cpf "o ctngtu."qt"drcendqctf "cpf "ej cmi"

30' **SIGN-IN**/"O cng"uwtg"cmłgo r mł{ ggu'r t gupv'tgeqtf "yj gk"pco gu"qp"c'uki p/łp"łj ggvł"

## 2. INTRODUCTION

ÉÁ Y tkvg'yj g'y qtf u'ŁDUKVG"UCHGVŁ "egpvgtgf "cv'yj g'łqr "qh'yj g'hłr ej ctv'qt"drcendqctf "

ÉÁ F tcy "c"łpg'f qy p'yj g'egpvgt "qh'yj g'łj ggv"etgcvłpi "vy q'eqnwo pułNcdgn'yj g'łgh'łj cpf "eqnwo p"

RQVGP VKCN"CEEŁŁ GP VU'cpf "yj g'łki j v'łj cpf "eqnwo p"UCHGVŁ "UQNWWKQP UłVj gp"cmłgo r mł{ ggu"

y j cv'łdukg'eqpf kłqpu'ecp"łgcf "łq"cp"ceekf gpv'cpf "r mceg'yj qug'tgur qpugu'łp"yj g'RQVGP VKCN"

CEEŁŁ GP VU'eqnwo pł'

ÉÁ Hqmqy "wr "y kłj "yj g's wgvkqp."\$Y j cv'ecp"dg'f qpqg"łq"r t gxpvp'yj g'ceekf gpv\$Rrceg'yj gug'tgur qpugu'łp"

yj g"UCHGVŁ "UQNWWKQP U'eqnwo p"cetqu'łtqo "yj g'r qvgpvkcn'ceekf gpv<"

50' **SHOW THE VIDEO**"Setting up a Jobsite Safely"

## 60' FOLLOW-UP"

ÉÁ F kuewu'yj g"/xkf gq"cpf "yj g'xctkqu"ceekf gpv'łegpctkqu'yj cv'y gtg'ł ki j rki j vgf łF łf "yj gł "eqttgur qp f "

y kłj "uqo g'qh'yj qug'yj cv'y gtg'o gpvłqpgf "r łkqt "łq"łj qy łpi "yj g'łkf gqA"Y gtg'ł{ qwt"uqnwkqpu'łko kłct."cpf "

łh'pqv'y j { A"

ÉÁ Cumi'yj g'r ctvłkr cpw'łq"eqpukf gt'yj g'eqpugs wgpegu"qh'ceekf gpvłł qy "ceekf gpv'chłgev'r tqf wvłxkł." "

o qtcrg."łco kł{ "łłg."s wcnkł "qh'łłg"chgt"cp"ceekf gpv'yj g'tgr wcvkqp"qh'yj g'eqo r cp{ ."equu"łq"yj g"

go r mł{ gg"cpf "go r mł{ gt"cuqekcvf "y kłj "yj g'ceekf gpv."gveł"

70' **DEVELOP A JOBSITE SAFETY CHECKLIST**"łqt"ł{ qwt"eqo r cp{ "wukpi "yj g'łphqto cvkqp"uwr r łkgf "łp"

yj kł'dqqmłgłCumiłqt "yj g'łpr w'łh'yj g'etgy "o go dgtułVj g'ło qtg'łpxqłxgo gpv'yj g'gpvłtg'etgy "ł cu'łp"ugwłpi "

uchgvł "ł qcmł "yj g'dgwtg'yj g'eqo o kło gpv'łq"cvckłłpi "yj go ł"



# TOOL BOX SAFETY TALKS

## TOOL BOX TALK TOPICS:"

30' Hqtmkhu"	4/7"
40' Ncf f gt "Uchgv{ "	4/8"
50' Tqqh'Ewwgt"	4/9"
60' Uechhqr f u"	4/: "
70' J cpf "Vqqnu"	4/; "
80' VtwniO qwpvgf "Etcpg"Uchgv{ "	4/32" "
90' RgtuqpcnHcniCttguvU{ ugo u"	4/33"
: 0' Tgukf gpvcnHcniRtqvgevkqp"Qr vkqp"	4/34"
; 0' Uchgv{ "O qpkqt "U{ ugo "	4/35"
320Um{ rki j w"cpf "Tqqh"Qr gplpi u"	4/36"
330Y ctplpi "Nkpg"U{ ugo u"	4/37"
340GrgvtekcniUchgv{ "	4/38"
350Ej qqulpi "vj g"Tk j v"Hktg"Gz vkpi wkuj gt"	4/39"
360Qz { i gp/Cegv{ rpgg"Vqtej "Uchgv{ "	4/3; "
370Rtqr cpg"Uchgv{ "	4/43"
380Vqtej /Crr rkgf "U{ ugo u"	4/44"
390J c  ctf "Eqo o wplecvkqp"	4/45"
3: 0O cvgtkcnUchgv{ "F cvc"Uj ggV*Vx3UF U"	4/47"
3; 0Dwtpu"htqo "J qv"Cur j cn"qt"Eqr f "Vct"Rkej "	4/48"
420J qv"Cur j cn"Rtqvgevkqp"	4/49"
430J qv"Cur j cn"Uchgv{ "	4/4: "
440Mgwrg"Qr gtcvkpu"/"Ugv wr "cpf "Uctv wr "	4/4; "
450Nwi i gtu"cpf "O qr "Ectw"	4/53"
460J qwugnnggr lpi "	4/54"
470Tqqh"Vtcuj "Tgo qxcn"	4/55"
480G{ g"Rtqvgevkqp"	4/46"
490I mpxgu."Emvj lpi "cpf "Uj qgu"	4/57"
4: 0J ctf "J cvu"	4/58"
4; 0J gctlpi "Rtqvgevkqp"	4/59"
520RgtuqpcnRtqvgevkxg"Gs wkr o gpv"	4/5: "
530Dcenikplwt { "Rtgxgpvkqp"	4/5; "
540Go r m{ gg"Tur qpukdkkkgu"	4/62"
550Qh/Vj g/Lqd"Uchgv{ "	4/63"
560Uj ggV'O gvcn"Uchgv{ "	4/64"
570F ghgpukxg"F tlxkpi "	4/65"
580UgcV"Dgnu"	4/66"
590VtwniNqcf lpi "	4/67"
5: 0Xgj kerg"O clpvgpcpeg"	4/68"
5; 0Y cvgt"F co ci g"Rtgxgpvkqp"	4/69"
620Y gcj gt/"Rgtuqpcn"Kplwt { "	4/6: "
630Rwdrke"Rtqvgevkqp"	4/6; "

Vj g"vgzv"htq"vj g"hmmy lpi "Vqqndqz"Vcmu"j cxg"dgpg"tg/r tkpvgf "y kj "r gto kuukqp"htqo "vj g"P cvkqpcnTqqh"lpi "Eqptcevtu"Cuuqekvkqp0Hqt"htvj gt"lphqto cvkqp"tgi ctf lpi "vj gug"vqqndqz "vcmu"qt"vq"lps vktg"cdqwf cf f kkpccn" qpgu"r ngcug"eqpcev"glkj gt "vj g"P qt vj IGcuV Tqqh"lpi "Eqptcevtu"Cuuqekvkqp"cv8390694/77; 2"qt"vj g"P cvkqpcn" Tqqh"lpi "Eqptcevtu"Cuuqekvkqp": 22/545/; 7670"



# TOOL BOX SAFETY TALKS

## FORKLIFTS

**Jobsite forklifts are usually telescoping beam and overhead carriage types.**

ÉÁ Vj gug'hqtmkhu'ctg'o cf g'hqt'tqwi j 'vgttclp0'

ÉÁ Vj g'j ki j /rkh'ecr cek\ 'ecp'o cng'yj g'gs wkr o gpv'wpuwdrng.'gur gekm\ 'qp'wpgxgp'i tqwfp 0'

ÉÁ Qpn\ 'tclp'gf 'cpf'cwj qtk gf 'y qtngtu'o c\ 'qr gtcvg'hqtmkhu0'

"

**Roofing contractors regularly use forklifts in the warehouse and the yard.**

ÉÁ Tqwi j 'vgttclp'o qf gnu'j cxg'uwr gpukqp'u\ ugo u'cpf 'r pgwo c\ke'vkt gu.'y j lej 'o cngu'yj go 'cp' gzegngp'v'ej qleg'hqt'wulpi 'qwf qqtu'qp'wpgxgp'i tqwfp 0'

ÉÁ Kpf qqt'o qf gnu'wuwcm\ 'f qp\j'j cxg'uwr gpukqp'cpf 'vgpf 'q'j cxg'uqrkf 'twddgt'vkt gu0Vj gug'o qf gnu' uj qwf p)\dg'wugf 'qp'tqwi j 'vgttclp'dgecwug'k\j'j ctf 'qp'yj g'gs wkr o gpv'cpf 'y g\ 'ecp'qxgtwtp'gcuk\ 0'

"

**All forklifts should be equipped with general safety mechanisms, and there are some simple operating procedures to follow as well.**

ÉÁ P gxgt'tkf g'qp.'qt'cmqy 'cp\qp'g'gng'v'q'tkf g'qp.'yj g'hqtmu'qt'cp\y j gtg'y j gtg'yj gtg'k\p'c'ugcv' r tqxkf gf 0''

ÉÁ Dg'cy ctg'qh'qxgtj gcf 'uwtewtgu'cpf 'grgevt'ecr\hkp gu0''

ÉÁ Kpur gev'\qwt'hqtmkhu'cpf 'o cng'uwtg'yj g'dcenw' 'uki pcnu.'j qtpu.'cpf 'rki j w'ctg'y qtnkpi 'dghqtg'\{qw' qr gtcvg'k0''

ÉÁ Fq'pqv'r'neg'cto u'qt'ngi u'dgwy ggp'yj g'o cuv'cpf 'yj g'hqtmkhu0''

ÉÁ Cmi'qr gtcvqtu'o wuv'tgegkxg'tclp'pi 'cpf 'dg'cwj qtk gf 'dghqtg'qr gtcv'pi 'c'hqtmkhu0''

ÉÁ Y j gp'yj g'hqtmkhu'ku'pqv'kp'qr gtcv'qp.'yj g'hqtmu'o wuv'dg'nyj gtgf 'eqo r ngvgn\ 0''

ÉÁ Vj g'tqmxygt'r tqv'ev'qp'ku'f guki pgf 'v'q'r tqv'ev'\{qw'kp'yj g'gxgp'yj cv'yj g'hqtmkhu'wtpu'qxgt0F q'pqv' lwo r 'htqo 'yj g'o cej kpg'h'k'u'vct'u'v'q'i q'qxgt0''

ÉÁ Ki'gs wkr r gf.'yj g'ugcv'dgn'y knhnggr '\{qw'htqo 'hcnkpi 'qw'kh'yj g'hqtmkhu'twpu'lpv'q'uqo gyj kpi 'qt'wtpu' qxgt0''

ÉÁ Vtcxgn'y kj 'mqcf u'cu'nyj 'cu'r quukdrng'dgecwug'yj g'j ki j gt'yj g'hqcf 'yj g'i tgcvgt'yj g'v'gpf gpe\ 'qh'yj g' hqtmkhu'v'q'qxgtwtp0P gxgt'igcxg'yj g'hqtmkhu'v'pcw'gpf gf 'y j gp'yj g'hqcf 'ku'g'gxcvgf 0'

ÉÁ Qpn\ 'j cpf ng'u'cdng'qt'uchgn\ 'cttcpi gf 'mqcf u0'

"

aa

"

### Vtclp'pi 'Vlr'u'

ÉÁ Uj qy 'yj g'xctkquw'eqo r qp'gpw'qh'yj g'hqtmkhu'wvej 'cu.'yj g'j qtp.'rki j wu.'cpf 'mqcf 'ej ctu00 cng'k'c' r qkp'v'yj cv'yj gug'kgo u'pggf 'v'dg'kpur gev'gf 'f ckn\ 'cmqpi 'y kj 'qy gt'kgo u'tgs wkt gf 'd\ 'yj g' o cpw'cewgt0'

ÉÁ Cuni'yj g'hqmy kpi 's wguv'qp<Y j \ 'ku'k'pqv'c'i qqf 'kf gc'v'q'cmqy 'r gqr ng'v'q'tkf g'qp'yj g'hqtmuA'

"

"



# TOOL BOX SAFETY TALKS

## LADDER SAFETY

**Before setting up a ladder, inspect it for defects.**

- ÉÁ O cng'lwgt'g'yj g'rcvj gu'qp'gzvpuqp'rcf fgtu'ctg'ugewt'gf "dghqtg'erko dlpi 0'
- ÉÁ P gxgt'wug'c'rcf fgt'y kj 'ur rk'qt'o kuupi 't'wpi u0'
- ÉÁ P gxgt'wug'c'rcf fgt'y kj 'i tgcug.'qkn'qt'cp' { 'qyj gt'urkr rgt' { 'uwxucpeg'qp'yj g'twpi u'qt'tcku0'
- ÉÁ F ghgexg'rcf fgtu'yj cv'ecppqv'dg'tgr cktgf'qp'yj g'ur qv'o wuv'dg'vci i gf '\$qww'qh'ugtxleg\$'cpf "
- tgo qxgf 0'
- ÉÁ O cng'lwgt'g'yj g'rcf fgt'hggv'o qxg'htgg' { 'cpf 'ctg'urkr /tgukucpv0'

**The ladder should extend three feet above the elevation you are climbing to and be secured.**

- ÉÁ K'ij g'rcf fgt'ku'pqv'cm'gpqwi j 'vq'gzvpgf 'yj tgg'hggv'qxgt'yj gp'k'o wuv'dg'vkgf "qhh"cpf "yj gtg'o wuv'dg' c'ugewt'g'i tcd'tcku0'

**For every four feet of building height, the base of the ladder should be set one foot away from the building. Set the ladder on firm ground and make sure that it is secure.**

- ÉÁ Eqpetgvg'qt'eqo rcev'uqk'ictg'kf gcn'lwthcegu0'
- ÉÁ Cxqkf'wpuvcdrg'tqemu.'hqug'ucpf.'o wf.'cpf'leg0'
- ÉÁ K'ij g'rcf fgt'f'qgu'pqv'j cxg'urkr /tgukucpv'hggv.'f ki 'c'uo cni'tgpej 'cpf'r'ncg'yj g'dcug'qh'yj g'rcf fgt'kp' yj g'tgpej 'vq'hgg' 'k'htqo 'urkr r lpi 0'

**Follow safe work practices for climbing and carrying ladders.**

- ÉÁ Mgr 'c'v'gcu'qpg'j cpf'qp'yj g'rcf fgt'cv'cm'ko gu'yj gp'erko dlpi 'wr'qt'f'qy p0'
- ÉÁ Hcg'yj g'rcf fgt'yj gp'erko dlpi 'kp'gkj gt'f'k'gevkqp0'
- ÉÁ Mgr 'rcf fgtu.'gur gekm' { 'o gcn'qpgu.'cy c' { 'htqo 'qxgtj gcf'r'qy gt'rkpu0'
- ÉÁ I gv'j gr'yj gp'o qxkpi 'j gcx' { 'rcf fgtu0'

aa"  
"

### Vtcklpi 'Vr'u'

- ÉÁ Go r j cuk'g'yj g'f'cpi gt'qh'c'o kucng'cu'uko r ng'cu'ceekf gpvcm' { 'j k'kpi 'c'r'qy gt'rkpg'yj kj 'c'o gcn' rcf fgt0Gzr rkp'yj cv'grgext'ekv' { 'y kn'ecwug'o wuergu'vq'eqpvtcev'uq'yj cv'yj g'go r nq' { gg'ecppqv'igv'i q'qh' yj g'rcf fgt'="cpf'cnuq'gzr rkp'yj cv'pq'qpg'ecp'j gr'j ko 'qt'j gt'dgecwug'j gr'gtu'y kn'i gv'"
- ÉÁ grgextqewgf'cu'y gn0Vj ku'ku'qh'gpc'c'rcn'ceekf gpv0"
- ÉÁ Uj qy 'c'f'co ci gf'rcf fgt'k' { 'qwj' cxg'qpg'kp'yj g' { 'ctf'cpf'gzr rkp'yj { 'k'ku'f'cpi gtqwu'vq'wug0"
- ÉÁ Rqlpv'v'f'k'htgpv'v' { 'r gu'qh'uqk'leqpf'k'kpu'qp'yj g'i tqwpf'cpf'cun'yj g'i tqwr'k'h'yj g'hqecv'kpu'ctg'uchg' hqt'ugv'kpi 'wr'c'rcf fgt0'
- ÉÁ J cxg'c'rcf fgt'cxckcdrg'cpf'f'go qpwt'cvg'j qy 'vq'ugv'k'wr 0'

" "



# TOOL BOX SAFETY TALKS

## ROOF CUTTERS

**Personal protective equipment is a must when operating a roof cutter. "**

ÉÁ G{ g'r tqvgevkqp "lp"vj g'hqto "qh'i qi i ngu"qt "uchgv{ 'i nuugu. 'y j gyj gt "{ qw'ctg"vj g'qr gtcvqt "qt "ctg" y qtnkpi "lp"vj g'ko o gf kcvg"xlekpkv{ "qh'vj g'tqqh'ewwgt. 'y knlr tngxgpv'h{ lpi "f gdtku"tqo "utknkpi "{ qwt" g{ gu0'  
ÉÁ Xgt { 'f wuv{ "lqdu"o c{ 'y cttecpv'i qi i ngu"qxgt "vj g'uchgv{ 'i nuugu0'  
ÉÁ J gctkpi "cpf "tgr kcvqt { 'r tqvgevkqp"o c{ "dg"pggf gf "cu'y gm0"

**Cushioned handles will help to reduce the amount of vibration from the machine. Roof cutters also pose hazards to passers-by and nearby property.**

ÉÁ Dgecwug"tqqh'ewwgtu"j cxg"c"vgpf gpe{ "q"vj tqy "i tcxgn'cpf "f gdtku. "qr gtcvki "qpg"ecp"ko r cev'r gqr ng" cpf "qdlgew"qyj gt "vj cp"vj qug"qp"vj g'tqqh0Vt { "q"eqqtf kpcvg"qr gtcvqpu'y kj "dwwf lpi "qy pgtu"lp" qtf gt "q"r tngxgpv'f co ci g0'

**Take care when adjusting the cutting blade.**

ÉÁ K{vj g'drcf g'ku'ugv"vqq"t ggr. "{ qw'o ki j v'cewcm{ "hpf "{ qwtugrh'ewwki "vj tqwi j "vj g'tqqh'f gen0'

**Before refueling, shut off the engine and allow it to cool as much as possible. Don't smoke ☐ while refueling the roof cutter, or any other piece of gasoline-powered equipment.**

Tqqh'ewwgtu"ctg"gzegnppvr kgegu"qh'gs wkr o gpv'hqt "ucxkpi "ko g'qp"rcti gt "lqdu0F qp)v'hcmlkpvq"vj g'vcr "qh'\$j cuvg" o cngu'y cuvg\$ "vj qwi j 0Vcng"gpqwi j "ko g'v"dg"ectghw0Rtqvge{ qwtugrh'cpf "qyj gtu"tqo "h{ lpi "tqemu"cpf " f gdtku. "cpf "vj g'qyj gt "j c| ctf u"vj cv'ecp"dg"r tguvpy j gp"tqqh'ewwgtu"ctg"vugf 0'

aa

### Vtcklpi 'Vlu'

ÉÁ F go qpwtcvg"vj g'ecr cdlkv{ "qh'tqqh'ewwgtu"q"vj tqy "uo cm'lvqpgu"cpf "f gdtku0"  
ÉÁ Uj qy "go r m{ ggu"j qy "q"rny gt "vj g'ewwki "drcf g. "cpf "j qy "q"hggr "tqo "ny gt lpi "k"vqq"t ggr 0Cum'  
vj g'hqmy lpi "s wgvkpu<  
Y j { "ku'k'vq"ko r qtcvpy"q"y gct" g{ g'r tqvgevkqpA"  
Y j cv'y kn'j cr r gp"kh'vj g'drcf g'ku'ugv"vqq"ny A'  
"



# TOOL BOX SAFETY TALKS

## SCAFFOLDS

**A scaffold is only as solid as its foundation.**

ÉÁ Uechhqrí u'ò wuv'dg'gtgevgf "qp'hto . 'uqrkf 'í tqwpf . 'rkng'eqpetgv"qt"eqo r cevgf "uqk0'  
ÉÁ Mggr "cy c{ 'htqo "ucpf . 'mqug'tqemu"cpf "ukf gu'qh'gzeccvqpu0'  
ÉÁ Cny c{ 'u'wug'dcug'r rvg'uetgy lcemu"q'o cng'rgxgrkpi 'y j g'u{ ugo "gcukgt0'  
ÉÁ Wug'o wf ukmu"qp'wpgxgp'i tqwpf "qt"eqo r cevgf "f hto'  
ÉÁ C"eqo r gvgpv'r gtuqp"ò wuv'f gekf g'y j cv'hcm'r tqvgevkp"ò gvj qf u'y km'dg'wugf "y j gp"gtgevkpi "qt"  
f kuo cpvkpi "uechhqrí u0'

**Make sure you use scaffold components correctly when erecting the system.**

ÉÁ Cn'eqo r qpgpwu'ò wuv'dg'htqo "y j g'uco g'o cpw'cewtgt. 'wprguu'y j g'eqo r gvgpv'r gtuqp"í gekf gu'y j cv"  
r ctu'htqo "qy j gt"u{ ugo u'ctg'uchg"q"uug0'  
ÉÁ O cng'uwg'cni'gpf "htco gu'ctg'ugewtgn{ "eqppgevgf "y kj "etquidtcckpi 0'  
ÉÁ Wug'eqppgevkpi "r kpu'y j gp"í qw'u'ceni'ò wmk'rg'rgxgnu'qh'gpf "htco gu0'  
ÉÁ Kí'y j gtg'ku'c'r quukdkk{ "qh'vr rkh'htqo "y kpf . "y j gp"uug'rqenki "r kpu'qt"y j gk "gs wxcrgpv0'

**When a scaffold's height exceeds four times its width, it must be secured to the building at least every 30 feet horizontally. Windscreens may require additional tie-ins.**

ÉÁ Kí'y j g'uechhqrí "u{ ugo "ku'y j tgg'h'y kf g'qt'rguu. 'k'ò wuv'dg'ugewtgf "cv'rgcu'gxgt { "42'h'xgtvkcni0'  
ÉÁ Kí'ku'ò qtg'y j cp'y j tgg'h'y kf g. "y j gp"í qw'ò wuv'ugewtgf "k'cv'rgcu'gxgt { "48'h'xgtvkcni0'

**Completely plank the work area, and use fall protection.**

ÉÁ Rrcpmi"j cxg"q"dg"uechhqrí "í tcf g'hwo dgt"cpf "dg"ò ctngf "cu'uwej 0'  
ÉÁ Vj g'r rcpmi'ecppqv'f ghgevo qtg'y j cp"n182"y "qh'y j g'ur cp'u'rgpi y j 0'  
ÉÁ I wctftcku'ò wuv'dg'gtgevgf . 'r gt"QUJ C"ur gek'kecvkpu0'

**Crossbraces cannot be used to access or climb down from a scaffold system.**

ÉÁ [ qw'ò c{ "erko d'y j g'gpf "htco gu'kh'y j g'twpi u'ctg'cv'rgcu'. \$'rqpi "cpf "pqv'ò qtg'y j cp"3807"lpej gu"  
cr ct0'  
ÉÁ Rrcvhtqo u'ò wuv'dg'cxckrdrng'cv'rgcu'gxgt { "57'hggv0'

aa

### Vtcklpi 'Vlu'

ÉÁ J qrf "y j g'Vqqndqz "Vcmi'ò ggvkpi "pgzv"q"cp"gtgevgf "uechhqrí "cpf "r qkp'qwy'j j gtg'k'ku'ugewtgf . "cpf "  
y j gtg'y j g'xctkqu'r ctu'qh'y j g'u{ ugo "ctg'hqecvgf "o wf "ukmu. "uetgy lcemu. "etquidtcckpi -0"  
ÉÁ Uj qy "y j g'go r mq{ ggu"j qy "y j g{ "ecp'vgnlkh'c'r rcpnku'uechhqrí /i tcf g'hwo dgt0"  
ÉÁ Gzr rckp"y j cv'y kpf "wr rkh'ku0"  
ÉÁ Cuni'y j g'hqmqy kpi "s wguvkpu<"  
Ctg"í qw'cmqy gf "q"erko d'y j g'etquidtcckpi A"  
Y j cv'ku'y j g'dguv'y c{ "q"rgxgn'c"uechhqrí "u{ ugo A"



# TOOL BOX SAFETY TALKS

## HAND TOOLS

Hand tools include everything from screwdrivers to handsaws, and any other tool that is manually powered.

It's essential to perform regular maintenance to keep hand tools in good working order.

ÉÁ Tgr mæg'dtqngp'qt'etcengf'j cpf ngu.'cpf'qyj gt'f ghgevkxg'r ctu0'

ÉÁ Uj ctr gp'czgu'cpf'ucy u0'

ÉÁ Wug'i tlpf gtu'q'nggr'ej kugnu'ltgg'qh'o wuj tqgo gf'j gcf u0'

ÉÁ Rwp'gy 'drxf gu'lpvq'wkrx' 'nplxgu'qp'c'tgi wxt'dcuku0'

ÉÁ Vj tqy 'cy c' 'cpf' tgr mæg'vqnu'yj cv'tg'utkr r gf'qt'y qtp0'

"

Even though there are no mechanical parts, manual tools do present hazards.

ÉÁ Cny c' {u'y gct'crr tqr tlcvg'r gtuqpcn'r tqvevkxg'gs wkr o gpv'RRG+.'lpenw'kpi 'CP UKcr r tqxgf'g'g' r tqvevkxg'p'y j gp'y qtnkpi 'y kj 'vqnu'yj cv'j cxg'uj ctr 'gf i gu'qt'ctg'ltngn' 'vq'i gpgtcvg'ln'kpi " r ctv'ergu0'

ÉÁ K r tqr gtn' 'wugf'j cpf 'vqnu'ecp'tguwn'lp'r wpewtgu.'ewu.'qt'dtqngp'dqpgu0'

ÉÁ Wkrx' 'nplxgu'cpf'qyj gt'uj ctr 'vqnu'o wuv'dg'hgr v'lp'c'uchg'r mæg'y j gp'yj g' {ctg'pqv'dgkpi 'wugf a" 'wugf a"

ÉÁ Cn'vqnu'uj qwf'dg'wugf'ht'yj gk'lpv'p'gf'gf'r wtr qugu'qpn'0'

ÉÁ Fq'pqv'wug'ej gcvg'tdct'qp'r t' { 'dct'qt'y tgej gu'vq'lp'etgcug' { qwt'hxgtci g'Vj ku'ecp'f co ci g'qt" f gntq' { 'y g'vqnu'cpf' o c' { 'tguwn'lp'r gtuqpcn'lp'wt' { 'cu'y gnt0'

"

K'ku'ko r qtv'p'v'q'o clp'v'clp'j cpf 'vqnu'dgecwug'yj g' { 'ctg'g'cukn' { 'y qtp'qt'f co ci gf 0'Rtqr gtv' { 'f co ci g'qt'r gtuqpcn' lp'wt' { 'ecp'tguwn'ltqo 'wukpi 'dtqngp'vqnu.'qt'ltqo 'wukpi 'y go 'hqt'qyj gt'yj cp'yj gk'lpv'p'gf'gf'r wtr qugu0'

"

aa"

"

### Vtclp'kpi 'Vkr u'

ÉÁ J cxg'c'pwo dgt'qh'f co ci gf'cpf'y qtp'vqnu'cxck'cdrg'cpf'cum'go r nq' { ggu'vq'kf gp'v'h' { 'y j lej 'ecp'dg" tgr cktgf'."cpf'y j lej 'pggf'vq'dg'tgr mæg'0'

ÉÁ Cum'yj g'hqm'y kpi "s wguv'qpu<"

Y j { 'ku'k'ko r qtv'p'v'q'nggr'ej kugn'j gcf u'ltgg'qh'o wuj tqgo uA"

Y j { 'ku'g' { g'r tqvevkxg'p'ko r qtv'p'v'y j gp'wukpi 'j cpf'vqnuA"

"

"



# TOOL BOX SAFETY TALKS

## TRUCK-MOUNTED CRANE SAFETY

Most safety issues for cranes apply to the operator; however, everyone on the job site should be a, of crane safety rules. Even if you are not an operator you may someday be called upon to learn signals and be a signalman, or be asked to assist the operator in guiding the boom. At the very least you should realize what the crane operator should and should not be doing and what you, as a crew member, should and should not be doing when you are around a crane in operation.

Crane operators must be specifically trained on each crane they operate.

Crane booms should always be at least ten feet from electrical lines.

Loads should always be swung away from crew members and the public.

Outriggers should be deployed whenever the crane is in use. "

ÉÁ Kí'j g'qwtki i gtu'ecppqv'dg'ugv'qp'hkto 'í tqwpf.'vj gp'etkddkpi 'o wuv'dg'wugf'vq'etgcvg'c'hkto 'cpf "  
rgxgrl'uwthcegO'  
"

The signal man must be trained in all of the signals or must wear a wireless headset so he can communicate with the crane operator.

A crane can never be used outside of its operating limits.

Shock loading, swinging loads too quickly, or bouncing loads places too much tension and stress on the crane booms and cables.

Only appropriately rated slings, ropes, and chains should be used when lifting a load. "

ÉÁ C'hqcf'hkpg'uj qwf'pgxgt'dg'wugf'vq'tki 'c'hqcf O'  
""

The rigging of the load and stability of the crane can be tested by lifting the load off the ground just a few inches before committing to the lift.

Employees accepting the load on the roof must use fall protection.

ÉÁ Vci 'hkpgu'ctg'j gr hwi'hqt'eqpv'tqnkpi 'hqc'f uO'gur gekcm{ 'qp'y kpf { 'f c { uO'  
aa"  
"

Vtcklpki 'Vkr-u'

ÉÁ Uj qy "go r mq{ ggu'c'etcp'g'cpf "gzi rckp'ku'dcule"qr gtcv'kp'hí'j g{ 'ctg'wphco kkt'í'j kj 'kO'

ÉÁ Gzi rckp'y j cv'uj qem'hqcf kpi 'cpf "dqwpelkpi 'ctgO'

ÉÁ F go qpwt'cv'j cpf 'uki pcnuO'

ÉÁ Cuni'j g'hqmqy kpi 's wgu'kq<

Kí'{ qw'ecp'hí wt'g'qw'j qy 'j g'etcp'g'ku'qr gtcv'gf.'ecp"'{ qw'l'wuv'o qxg'c'uo cm'hqcf 'kp'c"  
r kpej 'gxgp'hí'{ qw'j cxgp'N'dggp'vtckpgf A"

"

"



## TOOL BOX SAFETY TALKS

## PERSONAL FALL ARREST SYSTEMS

**A personal fall arrest system consists of a full body harness (body belts cannot be used for personal fall arrest), a lanyard with locking snaphooks, a safety line, and. an anchorage point.**

**The design of the system must meet certain specifications.**

ÉÁ Úter u'j cxg'v'q'dg'o cf g'qh'u{p'j g'v'e'h'dgt0'  
 ÉÁ Nqen'p'j 'upcr 'j 'qqm'u'qt 'F/t'p'j u'ctg't'gs w'kt'gf =cpf'v'j g{' 'o wuv'cwcej 'v'v'j g'dqf {' 'kp'v'j g'egpygt'qh'v'j g'  
 dcen0'  
 ÉÁ Vj g'cpej qtc'j g'o wuv'o gg'v'o cpw'c'ewt'gt'u't'gs w'kt'go gpw'0C'pej qtc'j gu'ecppq'v'dg'e'qpp'ge'vgf 'v'q'  
 r'nc'v'q'to u.'i wctf't'ck'u.'qt'j q'k'u'0'  
 "

**Fall protection devices have to be inspected before each use.**

ǼǼ Nqꝯmǵht'y gct."f co ci g"qt"f gvgtkꝯtꝯkp0"  
 ǼǼ Ej genǵht"dtqngꝯ"qt"f ghꝯto gf "upcr j qꝯmǵ"qt'F /tkꝯi u0'  
 ǼǼ Gs wkr o gpv'y kj "f ghgeu'w wu'vg'tgo qxgf "cpf "ci i gf "hꝯt'tgr ckt."qt'f kꝯectf gf 0"  
 "

**Make sure the system is installed and worn correctly.**

ÉÁ Cxqkf 'v( kpi 'qhh'ctqwpf 'tqwi j 'qt'uj ctr 'gf i gu'  
ÉÁ C'hcm'o wuv'dg'no kgf 'v'ukz'hggv'  
"

**When the equipment is actually used to arrest a fall, it must be removed from service and a competent person must inspect it to determine whether or not it is reusable.**

**Never use a body harness to hoist materials.**

**Fall arrest equipment should not be stored where it will be exposed to sunlight or extreme temperatures.**

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"
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Vtckpki 'Vkr u'

ÉÁ Y gct"y g"dqf { "j ctpguu"qt"r wkw'qp"uqo gqpg"kp"qtf gt"vq"f go qpwtcvg'hk0Gzr rclp"y g'gzcev'hcm'  
cttguv'u{ uvgó "y cv'{ qwt"eqo r cp{ "wugu0'  
ÉÁ Cum'y g'hqmqy lpi 's wguwqpu<  
F q'f{ qwj' cxg"vqj' cxg"c"dqf { "j ctpguu."qt"ecp"{ qw'wug"c"dqf { "dgmA'  
Ecp"{ qw'eqppgev'f qwt"r gtuqpcn'hcm'cttguv'u{ uvgó "vq"c'i wctf tclnA'  
Kl'y g"dwwf lpi 'ku'42'hggvj' k j .j qy 'hct'ctg"{ qw'cmqy gf "vq'hcm'dghqtg'y g'r gtuqpcn'hcm'  
cttguv'u{ uvgó "uqr u'{ qwt'hcmA'



# TOOL BOX SAFETY TALKS

## RESIDENTIAL FALL PROTECTION OPTION

Slide guards are roofing brackets with 2' x 6' (nominal) planks.

Projects that use residential-type roofing materials can use roofing slide guards as a fall protection method, if the following two conditions are met. "

ÉÁ Vj g'iqy gt'gxcg'ku'47'hggv'qt'rgu'ltqo 'y g'i tqwpf.'cpf "

ÉÁ Vj g'unqr g'ku'rgu'y cp'qt'gs wcn'vq': /kp/340

"

For projects with a roof that has a slope less than or equal to 6-in-12.

ÉÁ Gcxcg'urkf g'i wctf u'o wuv'dg'lpucmgf 'cv'c'; 2'f gi tgg'r nua'qt'o kpwu'32'f gi tggw'cpi rg'vq'y g'tqqh' uwthcegO'

ÉÁ Vj ku'urkf g'i wctf 'o wuv'dg'lpucmgf 'eqp'kp'wq'wun' 'cm'pi 'y g'gxcgO'

ÉÁ P q'o qtg'y cp'y tgg'eqwtugu'qh'tqqh'pi 'o cvgtkn'ecp'dg'rc'kf "dghqtg'y g'urkf g'i wctf 'ku'lpucmgf O'

ÉÁ Wug'c'uchgv' 'o qpkqt'u' ugo 'hqt'h'uv'y tgg'eqwtuguO'

"

For projects that have a roof with a slope greater than 6-in-12, up to and including 8-in-12.

ÉÁ Uurkf g'i wctf u'o wuv'dg'lpucmgf 'eqp'kp'wq'wun' 'cm'pi 'y g'gxcgO'

ÉÁ C f f k k q p c n'urkf g'i wctf u'o wuv'dg'lpucmgf 'cugpf' kpi 'y g'tqqh'cv'lpvgtxcn'pq'i tgcvg't'y cp'gk'j v'hggv' cr ct'0Vj gug'urkf g'i wctf u'ctg'tgs wktgf 'qp'n' 'wpf gt'y g'y qtn'ctgcO'

ÉÁ Vj g'r'ncpm'qh'y g'cf f k k q p c n'urkf g'i wctf u'o c' { 'dg'ug'cv'cp'cpi rg'o qtg'uwkcdrg'hqt'y cm'kpi . " r tghgttgf O'

"

In general, material must be stored no closer than six feet to the rake edges.

ÉÁ O cvgtkn'ecp'dg'pq'emugt'y cp'uz' hggv'ltqo 'y g'tcng'gf i g'gzegr v'ht'v'kg'qt'o g'wn'tqqh'pi 'lqdu' y j gtg'o cvgtkn'o c' { 'dg'y kj kp'y tgg'hggv'qh'y g'tcng'gf i gO'

ÉÁ Tqqh'pi 'y qtngtu'ctg'pqv'cm'y gf 'vq'dg'cp' { 'emugt'y cp'uz' hggv'vq'y g'tcng'gf i g'gzegr v'vq'r gthqto " y qtnO'

ÉÁ Vj g'ctgc'dgm'y 'y g'tcng'gf i g'o wuv'dg'ltgg'qh'ko r cngo gpv'j c| ctf uO

You are permitted to use a safety monitor system on tile and metal projects.

ÉÁ C'uchgv' 'o qpkqt'o wuv'dg'c'eqo r gvgpvr'gtuqp'y j q'ecp'ugg'cpf 'y ctp'etgy 'o go dgtu'h'y g' { 'ctg' y qtn'kpi 'wpuchgn' { 'qt'h'y g' { 'ctg'emug'vq'hcn'j c| ctf uO'Vj g'uchgv' 'o qpkqt'ecp'j c'xg'q'y gt'f wkgu. " r tqxkf gf 'y g' { 'f q'pqv'f g'vcevtqo 'j ku'qt'j gt'cdk'k' { 'vq'ugt'xg'cu'c'o qpkqtO'

ÉÁ Vj g'ctgc'dgm'y 'y g'tcng'gf i g'o wuv'dg'ltgg'qh'ko r cngo gpv'j c| ctf uO

aa

"

### Vtcklpi 'Vlu'

ÉÁ K'qp'c'tgukf gp'kcn'r tq'lgv'f go qp'ut'cvg'eqttgevt'lpucm'v'kqp'qh'urkf g'i wctf uO'

ÉÁ Cun'y g'hqmy kpi 's wguv'kp'c'<

Y j gp'c'tqqh'ku'gkj gt'i tgcvg't'y cp': /kp/34'qt'ku'gxcg'j gk'j v'ku'i tgcvg't'y cp'47'hggv'

ltqo 'y g'i tqwpf.'eqpxgp'v'kpcn'hcn'r tq'v'ekqp'u' ugo u'o wuv'dg'wugf O'Y j cv'ctg'uqo g' g'zco r ngu'qh'eqpxgp'v'kpcn'hcn'r tq'v'ekqp'u' ugo uA'

"

"



## TOOL BOX SAFETY TALKS

## " SAFETY MONITOR SYSTEM

**A Safety Monitor System can be used as the only means of fall protection on a low slope (4-in-12, or less) roof that is less than 50 feet across.**

**Safety Monitoring Systems are also allowed on roofs that are wider than 50 feet, but must be used in conjunction with another fall protection system. "**

ÉÁ Y ctpkpi "hpgu"ctg"j g'uko r ngu"cpf"o quv'r qr wct"u{ ugo 0'

ĤĤ Gxgp'y kj 'y g'y ctpkpi 'hpgu.'y g'Uchgv 'O qpkqtkpi 'U{ wgo 'o wuv'dg'kp'wug'y j gpgxgt'go r m{ ggu'  
ctg'y qtnkpi 'qwu'f g'y g'y ctpkpi 'hpgu'

11

**The Safety Monitor must be a competent person. "**

ÉÁ C"eqo r gvvpv'r gtuqp"ku<

Uqo gqpg'y j q'j cu'dggp"tclpgf"v"dg"cdrg"v'tgeqi pk g'cpf"cpvkr cvg'j c|ctf u'cpf'y j q'ku"  
cwj qtl gf"v"cmg"lo o gf kcv"eqttgevkxg"cevkqp0'

"

**The Safety Monitor must be on the same working level, be able to see the employees he or she is monitoring, and be able to communicate with them verbally.**

**The Safety Monitor may not have other duties that could interfere with his or her ability to act as a monitor. "**

**IA** Uqo g'ucvg'r rpu."uwj "cu'Ecnhtpk'u'cpf "Y cuj kpi vqp.u.f q'pqv'cmuy "y g'Uchgv "O qpkkqt "q"j cxg"  
cp{ "qv gt "f wkgu"y j kg"cevkpi "kp"y g'o qpkkqtkpi "ecr cek\ O\Kp"y g'o clqtkv "qh'ucvgu."y g'uchgv "  
o qpkkqt "ku'r gto kwgf "q"r gthqto "qv gt "f wkgu0

[illegible]

*Vtckpki 'Vkr u'*

ÉÁ Cum'go r m { ggu'k'p'y j cv'ukwcvkpu'v j g { 'v j kpm'v j g'Uchev' 'O qpkqt'qwi j v'v'q'y ctp"go r m { ggu'0

ÉÁ F guetkdg"y g"f wkgu"qh"e"eqo r gvgpv'r gtupr"cu"y g{"cr r n{"vq"} qwt"eqo r cp{"qt"} qwt"ewtt gvp'r tqlgex0'

ÉÁ Cum'ý g'hqmy kpi "s wguvqpu<

Y j gtg"o wuv"vj g"uchgv{ "o qpkxqt"dgA""

Ecp'yj g'uchgv "o qpkqt"dg'r gthqto kpi "cp{ 'y qtm'qvj gt'yj cp"cevkpi "cu"c"uchgv "o qpkqtA"



## TOOL BOX SAFETY TALKS

## SKYLIGHTS AND ROOF OPENINGS

Go r m { ggu'o wu'dg'r tqvge'f 'tqo 'hcnkpi 'y tqwi j 'j qngu'p 'y g'tqqh0C 'j qng'ku'f ghkpgf 'cu'cp { 'tqqh'qr gpkpi " yj cv'ku'cn'vgcu'4\$'y kf g0C 'umf rki j v'hk wtg'o c { 'pqv's wcnk { 'cu'c'r tr gt 'eqxgt 'h'ku'pqv'wtqpi 'gpqwi j 'vq" uw'r qtv'y keg'y g'y gki j v'qh'go r m { ggu'cpf 'o cvgtknu0"

**Protection from falls through roof openings and skylights can be in the form of personal fall arrest systems, covers, or guardrail systems.**

**The covers must be secured to prevent displacement caused by wind, equipment, or employees. Covers must either be color coded, or have the words "HOLE" or "COVER" painted on them to warn all employees.**

**If a cover is used, it must be capable of withstanding at least two times the weight of the workers and materials that are likely to stand on it or be placed upon it.**

**Warning lines can be used to cordon off areas where a number of skylights are located.**

**If the cover or guardrail system must be removed to install wood blocking or flashings, employees must use personal fall arrest systems.**

**Skylights and roof openings pose severe hazards for you when you're on the roof. It may seem unlikely to you now that you could accidentally fall through a skylight, but plenty of roofing employees have been injured or lost their lives because a skylight or roof opening was not properly covered or blocked.**

"

*Vtckpki 'Vku'*

ÉÁ Uj qy "c"eqxgt"vj cvku"eqmgt"eqf gf ."qt"j cu\$J QNG)qt"SEXQGT"\$r ckpgf"qp"ko'

ÉÁ Gzr rckp"vj g'hcm]j c| ctf u"qp" { qwt"ewttgpvr tqlgev."kh"vj gtg"ctg'umf rki j w"qt"tqqh"qr gpkpi u0'

ĒĀ Cum'ij g'hqmy koi "s'wuwkpu<

Y j { "ecpø'lwuv'cp{ 'r kgeg'qh'r n{ y qqf "dg" wugf "cu'c"eqxgtA"

Y j { "o wuv\$J QNG\$. \$EQXGT\$. "qt"eqmt"eqf kpi "dg"wguf A"



# TOOL BOX SAFETY TALKS

## WARNING LINE SYSTEMS

**Warning lines are for use on roofs: "**

- ÉÁ Vj cv'ctg'ukz'hggv'qt'j ki j gt"
- ÉÁ Vj cv'j cxg'umr gu'qh'hqwt'kpej gu'lp'y grxg'qt'rguu."
- ÉÁ Vj cv'ctg'y kf gt'y cp'hkm'hggv'cpf"
- ÉÁ Vj cv'j cxg'r cter gv'y cmu'rguu'y cp'5; \$'j ki j 0"

**The lines are made of rope, wire, or chain, and are flagged at least every six feet.**

- ÉÁ Vj g'rkpgu'o wuv'j cxg'c'vgpukg\*dtgcnkpi +'utgpi yj 'qh'cv'rgcu'722'r qwpf u0'
- ÉÁ Vj g{'j cxg'q'dg'umr r qtvf'd{ 'ucpej kqp'r quu.'y j lej 'ecp'y kj ucpf 'cv'rgcu'c'38/r qwpf 'vkr r kpi "
- hqtg0'
- ÉÁ Vj g'j gki j v'htqo 'yj g'tqqh'uwthceg'q'yj g'y ctpkpi 'rkpg'o wuv'dg'dgvy ggp'56'cpf'5; 'kpej gu0'

**All open edges near the work area must be guarded by warning lines.**

- ÉÁ Y j gp'yj gtg'ku'pq'o gej cplecn'gs vkr o gpv'dgkpi 'wugf.'yj g'rkpgu'j cxg'q'dg'ugv'lp'ukz'hggv'htqo 'cmi' gfi gu0'
- ÉÁ Y j gp'o gej cplecn'gs vkr o gpv'ku'dgkpi 'wugf.'yj g'rkpgu'o wuv'dg'vgp'hggv'htqo 'yj g'gfi g'lp'yj g' f kgevkqp'yj g'o cej kpg'qr gtcvqt'ku'tcxgnkpi .'cpf'ukz'hggv'lp'qp'yj g'ukf gu0'

**Mechanical equipment cannot be used or stored outside the warning lines. Roofing materials also cannot be stored in the areas outside the warning lines.**

**Any workers outside the warning lines must be protected by a personal fall arrest system, guardrails, or a safety monitoring system.**

aa"  
"

### Vtclpkpi 'Vkr u'

- ÉÁ O gcuwtg'qh'ukz'cpf'vgp'hggv'q'i kxg'y qtngtu'cp'kf gc'qh'yj g'f kucpeg'tgs wktgo gpw'htq'y ctpkpi "
- rkpgu0'
- ÉÁ Uj qy 'yj g'uwtf kpguu'qh'c'ucpej kqp'uq'yj g{'i gv'c'hggv'htq'j qy 'f khheww'k'ku'v'vkr'qxgt0'
- ÉÁ Cum'ij g'hqmny kpi 's vguvkpu<"
- Cum'go r m{ ggu'y j { 'yj g{'yj kpm'yj g'y ctpkpi 'rkpgu'j cxg'q'dg'ugv'htq'yj gt'lp'htqo 'yj g' gfi g'y j gp'o gej cplecn'gs vkr o gpv'ku'dgkpi 'wugf A'
- Y j gtg'ctg'{'qwcmy gf 'q'wug'cpf'uwqtg'o gej cplecn'gs vkr o gpvA'



# TOOL BOX SAFETY TALKS

## ELECTRICAL SAFETY

Electrical safety on the jobsite can be achieved by using a ground fault circuit interrupt (GFCI) or an assured grounding program.

A ground fault circuit interrupter is a sensitive circuit breaker that detects small changes in amperage and trips very quickly. "

ÉÁ Ej gem'ij g'I HEKtgi wactn' 'y kj 'y g'\$Vguv\$'cpf '\$T gugv\$'dwwqpu0'

ÉÁ Kt'c'I HEKku'hqwpf 'vq'dg'f ghgevxg. 'kv'uj qwf 'dg'ko o gf kvgn' 'tgo qxg3'htqo 'ugt xleg'cpf 'tgr megf 0'

ÉÁ C'I HEKko wuv'dg'wugf 'vq'r tqvev'cm'grgevt'ecv'vqqn'cpf 'gz vgpukqp'eqtf u0Vq'cee qo r rkuj 'y ku. 'kv' o wuv'dg'r megf 'cv'yj g'gpgti { 'uqwtg0'

An assured grounding program is designed to ensure that equipment and extension cords. are properly grounded.

ÉÁ Vj g'hqmy kpi 'ctg'uchgv' 'tgs wktgo gpw'ht' 'gz vgpukqp'eqtf u<

Vj g{ 'o wuv'dg'kpur gev'f 'dghqtg'htu'wug0''

Eqtf u'yj cv'ctg'htc{ gf. 'eww.'qt'j cxg'g'zr qugf 'y ktgu'qt'kpuwv'kqp'o wuv'dg'tgo qxgf 'cpf 'vci i gf 0''

Wug'qpn' 'y tgg/r tqpi gf 'f qwdrg/kpuwv'v'f 'gz vgpukqp'eqtf u0''

O cng'uwg'yj g'i tqwpf kpi 'r kp'ku'r tgugpv'cpf 'eqppgev'f 0''

F q'pqv'cwcej 'gz vgpukqp'eqtf u'vq'yj g'lwthceg'qh'yj g'dwktf kpi 0'

The following are safety requirements for tools:

Cm'r qy gt 'vqqn'o wuv'dg'yj tgg/r tqpi gf 'v'f r g. 'wprguu'yj g'vqqn'ku'engctn' 'o ctn'f 'cu'dgkpi "

f qwdrg/kpuwv'v'f 0''

Vqqn'yj cv'ctg'pqv'f qwdrg/kpuwv'v'f 'o wuv'dg'kpen'f gf 'kp'yj g'cuwv'f 'i tqwpf kpi "'

r tqi tco 0''

O cng'uwg'yj g'i tqwpf 'r kp'qp'cp{ 'y tgg/r tqpi gf. 'bpq/f qwdrg/kpuwv'v'f 'r qy gt 'vqqn'ku'r tgugpv'0'

Kt'yj g'i tqwpf 'r kp'ku'o kuukpi. 'kphqto '{ qwt'uw'gt xkuqt0''

Ej gem'cm'eqtf u0Vj g'vqqn'o wuv'dg'cngp'qw'qh'ugt xleg'ht'yj g'kpuwv'kqp'ku'cv'cm'g'zr qugf 0'

aa"

Vtchlpki 'Vkr-u'

ÉÁ J cxg'c'I HEKqp'j cpf 'cpf 'f go qpwt'cv'yj g'v'guv'cpf 't'gugv'hwpev'kpu0'

ÉÁ F guetkdg'gs wkr o gpv'v'guv'kpi 'cpf 'j qy 'yj g'gs wkr o gpv'ku'qi i gf 'qt'eqm't'eqf gf 0'



# TOOL BOX SAFETY TALKS

## CHOOSING THE RIGHT FIRE EXTINGUISHER

There are four classes of fire extinguishers.

- ÉÁ Ercuu'C'hk'g'gz'vpi wkuj gtu'ct'g'wugf "qp'y qqf . 'r cr gt. "qt'vcuj 'hkt'gu0'Dcukecm{ . 'cp{ 'o cvgt'ken'y cv' rxcxgu'cu'j 'y j gp'kxu'dwtpgf 0"
- ÉÁ Ercuu'D'hk'g'gz'vpi wkuj gtu'ct'g'wugf "qp'hco o cdrg'rls wkf u'cpf 'i cugu0'
- ÉÁ Ercuu'E'hk'g'gz'vpi wkuj gtu'ct'g'wugf 'hqt'grgest'lecn'hkt'gu0'
- ÉÁ Ercuu'F'hk'g'gz'vpi wkuj gtu'qpnl 'pggf "v'dg'wugf "qp'eqo dwukdrg'o gvcn'hkt'gu0'Ego dwukdrg'o gvcn' lpenwf g'o ci pgukwo . 'uqf kwo "qt'qvj gt'o gvcn'yj cv'gpf 'y kj 'y g'ngwtu'\$wo \$0'

Be sure to use the correct fire extinguisher.

- ÉÁ Cp'CDE/tcvgf 'hkt'g'gz'vpi wkuj gt'ku'yj g'dguv'v'j cxg'qp'j cpf "dgecwug'k'y knlr w'qww'cm quv'cm' v'r gu'qh'hkt'g'gpeqwpvgtgf "qp'yj g'tqqh0'
- ÉÁ O cng'uwg'yj g'hkt'g'gz'vpi wkuj gtu'ct'g'r tqr gtn' 'tcvgf 'hqt'yj g'lqdukg0'k'i gpgtcn'cp'gz'vpi wkuj gt' tcvgf 'cv'rgcu'4C'o wuv'dg'r tqxkf gf 'hqt'gcej '5.222'us wct'g'hggv'qh'yj g'tqqh0'

Know where the fire extinguishers are located on the jobsite.

- ÉÁ [ qw'uj qwf 'pqv'j cxg'v'q'v'cxgn'o qtg'yj cp'322'hggv'v'j g'v'v'c'hkt'g'gz'vpi wkuj gt0'
- ÉÁ Y j gtgxgt'yj gtg'ku'o qtg'yj cp'7'i cmqpu'qh'hco o cdrg'qt'eqo dwukdrg'rls wkf u.'qt'o qtg'yj cp'7" r qwpf u'qh'hco o cdrg'i cu.'yj gp'yj gtg'o wuv'dg'cv'rgcu'v'pg'hkt'g'gz'vpi wkuj gt'yj kj 'c'32D'tcvpi " y kj kp'72'hggv'yj ku'f qgu'pqv'kpenwf g'yj g'rls wkf u'kpukf g'qh'dwkn/kp'i cu'cpmu'qh'o qvqt'xgj kengu0"
- ÉÁ C'v'rgcu'v'yj q'hkt'g'gz'vpi wkuj gtu'o wuv'dg'hgr v'qp'yj g'i tqwpf 'y kj 'y g'ngwrg.'cy c{ 'htqo 'yj g'ngwrg' cpf 'r tqr cpg0'

Memorize the PASS system for extinguishing a fire.

- ÉÁ R/"Rwm'yj g'r kp0'
- ÉÁ C'ó'Cko 'y g'pq| | rg'cv'yj g'dcug'qh'yj g'hkt'g0'
- ÉÁ U/"Us wgg| g'yj g'j cpf rg0'
- ÉÁ U/"Uy ggr 'htqo 'ukf g'v'ukf g'v'eqxgt'yj g'gpvt'g'hkt'g0'

Fire extinguishers should be inspected monthly.

- ÉÁ O cng'uwg'yj g'rqen'kpi 'r kp'ku'v'kf 'kp'r rceg'cpf 'ku'pqv'dgpv0"
- ÉÁ P qvg'yj cv'yj g'pggf rg'ku'kp'yj g'r tqr gt'r tguuwg'| qpg0"
- ÉÁ Nqqnl'ht'cp{ 'twuv.'f gpvu.'qt'etcemu'cp{ y j gtg'qp'yj g'eculpi 0'



# TOOL BOX SAFETY TALKS

## CHOOSING THE RIGHT FIRE EXTINGUISHER

aa

### Vtclpi 'Vlu'

- ÉÁ F go qpuctvg"j qy "vq"wg"ch"t g"gz vpi wkuj gt0'
- ÉÁ Cmgy "go r m{ ggu"vq"wg"vj g"gz vpi wkuj gt "h'r quukdrg0'
- ÉÁ Uj qy "vj go "j qy "hct"72"cpf "322"hggtctg"uq"vj g{ "ecp"ugg"j qy "emug"gz vpi wkuj gtupggf "vq"dg0'
- ÉÁ Rqlpvqw"vj g'hqenpi "r lp"cpf "r tguwtg"i cwi g"qp"vj g"gz vpi wkuj gt0'
- ÉÁ K{ "qwt"eqo r cp{ "wugu"qy gt "vj cp"CDE"tcvgf "h"t g"gz vpi wkuj gtu."s wk "vj g'y qtngtu"qp"vj g'npf u"qh" h"t gu"vj cv"ecp"dg"r w"qw'y kj "vj g"fh"gtgpv"gz vpi wkuj gtu{ "qw"wg0'
- ÉÁ Cuni"vj g'hqmy lpi "s wguqpu<"
  - Y j cv"fqgu"RCUU"tucpf "hqtA"
  - Y j cv"npf u"qh"h"t gu"ecp"{"qw'r w"qw'y kj "c"Emuu"C"h"t g"gz vpi wkuj gtA"



# TOOL BOX SAFETY TALKS

## OXYGEN-ACETYLENE TORCH SAFETY

Oxygen-Acetylene torches are used often in roofing to cut through heavy metal objects such as metal decking.

- ÉÁ Cegv\ngpg'ku'c'xgt { 'hmo o cdrg'i cu'bo cf g'htqo 'cegvpng0Cegvpng'ku'c'xgt { 'hmo o cdrg'hs wkf "
- éqo o qpn\ 'hqwpf 'kp'r tqf weu'hkng'r ckpv'utkr r gt0'
- ÉÁ Qz { i gp'ku'bo kzgf 'y kj 'ceg\ngpg'uq'v'j cv'j g'ceg\ngpg'y kn'dwtp'cv'c'j ki j gt 'vgo r gtcwtg0Vj g" j ki j gt 'vgo r gtcwtg'o cngu'ewwkp' 's wknegt'cpf 'o qtg'ghgevkxg0'
- "

Setting up the oxygen-acetylene system is a critical step for everyone's safety.

- ÉÁ Vj g'qz { i gp'cpf 'ceg\ngpg'cpnu'bo wuv'dg'r nceg' 'kp'cp'wr tki j v'cpf 'ugewtgf 'r qukskp0"
- ÉÁ Kp'tcpukv'v'j g'ecr u'bo wuv'dg'qp'gcej "dqwrg0"
- ÉÁ Fq'pqv'tcxgny kj 'v'j g'i cwi gu'cwcej gf 'v'j g'dqwgug#"
- ÉÁ Fq'pqv'uo qng'qt'j cxg'qr gp'hmo gu'kp'v'j g'ctgc'qh'qz { i gp/ceg\ngpg'lqdu0"
- ÉÁ P gxtg'twug'qkl'v'q'ndtkecv'g'i cwi gu'qt'j cpf ngu' 'cpf 'hnggr 'qkn\ 'tci u'qw'qh'v'j g'ctgc0Qz { i gp'tgcevu' xkngpvn\ 'y kj 'qkl'cpf 'y kn'dwtp0"
- ÉÁ Kp'r gev'j g'gs wr o gpv'v'q'bo cng'uwg'k'ku'kp'i qqf 'y qtnkpi 'qtf gt'cpf 'v'j cv'j g'j qugu'f q'pqv'j cxg" j qngu'kp'v'j go 0"
- ÉÁ P gxtg'twug'qz { i gp'v'q'drny 'f k'v'qh'h'qh' { qwt'enyj gu'qt' { qwtugnt0Vj g'f k'v'bo c { 'r gpgt'cv'g' { qwt'unkp" wpf gt'v'j g'j ki j 'r tguwug0'
- "

When using an oxygen-acetylene system bottle, the valves on each bottle should not be turned more than one and one-half times.

- ÉÁ Klc'ur gekn'y tgepj 'ku'pggf gf 'qp'v'j g'ceg\ngpg'dqwg. 'hgcxg'k'kp'r nceg'qp'v'j g'wgo 'kp'ecug'v'j gtg'ku" cp'go gti gpe { 'cpf 'v'j g'dqwg'pggf u'v'q'dg'uj w'qh0"
- ÉÁ S wknm\ 'qr gp'gcej 'dqwg'cpf 'enug'v'j go 0Vj ku'ku'ecmgf '\$etcenkpi \$'cpf 'k'engcpu'qw'v'j g'xcxg'qh' cp { 'f gdtku0O cng'uwg'v'j g'j qugu'ctg'pqv'epppgev'g'f 'y j gp'v'j ku'ku'f qpg0"
- ÉÁ Wug'qpn\ 'c'ur ctnli gpgtcvt'v'q'hki j v'v'j g'vqtej 0"
- ÉÁ Cny c { u'hki j v'v'j g'ceg\ngpg'htuv' 'cpf 'cf lwuv'v'j g'hmo g'y kj 'v'j g'qz { i gp'""
- ÉÁ Y j gp'hpkuj gf . 'uj w'v'j g'xcxgu'qh'h'cv'v'j g'dqwgug'cpf 'r wti g'v'j g'hkpgu'qh'cp { 'i cugu0'

Personal protective equipment (PPE) is also required when torch cutting with oxygen-acetylene.

- ÉÁ O cng'uwg' { qw'wug'r tqr gt'g { g'r tqvgevkp'y kj 'eqttgev'hgpu'uj cf gu0Cun\ { qwt'uwg'gtxkqt'k\ { qwt'g" pqv'uwg'y j cv'uj cf g'qh'hgpugu'v'q'wug0'
- ÉÁ Y gct'c'hkpi 'ungxgf 'uj k'v'cpf 'hgvj gt'i nqngu0'



# TOOL BOX SAFETY TALKS

## OXYGEN-ACETYLENE TORCH SAFETY \*eqp wpgf +

aa"

### Vtcklpi 'Vlu'

ÉÁ Klr quukdrg."j cxg"cp"qz { i gp/cegv ngpg'u{ ugo "cxckrdng0'

ÉÁ F go qpwtcv'vj g'hmqy lpi <"

Ugv'wr ""

Kpur gevqp""

Nli j vpi "cpf 'r tqr gtn{ "ugvpi "vj g'hrco g"

ÉÁ Cunlvj g'hmqy lpi "s wgvkqpu<"

Y j { "uj qwrf p)" { qw'wug"qz { i gp"q"ergcp"qh" { qwt'erqvj gu"qt"unkpA"

Y j cv'uj qwrf "" { qw'wug"q" hli j v'vj g"vqtej A"

"

"

"



# TOOL BOX SAFETY TALKS

## PROPANE SAFETY

Rtqr cpg."qt'hs wghkf'r gvtqrwo 'i cu"\*NRI +.'ku'i cu'yj cv'ku'eqqrkf.'.eqo r tguugf.'.cpf'uxqtgf'lp'r tguuwtk gf " eqpvckpgtu0Vj ku'r tgeguu"cmqy u'hqt'i tgcvc'o qwpvu'qh'hwgn'vq'dg'uxqtgf'lp'c'uo cm'eqpvckpgt."dw'cnq'etgcvu' uki pkklecpvj c| ctf u0'

**LPG cylinders come in a variety of sizes, and choosing the right size is important. "**

- ÉÁ Vj g'o quv'eqo o qp'uk' gu'lp'yj g'tqqlkpi 'kpf wux { 'ctg'42/. '62/. 'cpf '322/r qwpf 'e { rkp'f gtu0'
- ÉÁ Kk' { qw'ugrgev'c'e { rkp'f gt'yj cv'ku'vq'uo cm'hqt' { qwt'lqd. 'vj g'vcpn'lo c { 'ltquv'cpf 'f getgcug'yj g'co qwpv' qh'r tqr cpg'dgkpi 'tgrgcugf 0Vj ku'ku'o quv'hwgn' { 'vq'j cr r gp'f wt'kpi 'vqtej kpi 'cr r rlec'vqpu'lp'eqrf gt' erko c'vuo'
- ÉÁ Kk'c'vcpn'lf qgu'ltquv.'yj gp'rgv'kv'yj cy 'pcwtcm { 0F qp)'vqtej 'yj g'e { rkp'f gt'lp'qtf gt'vq'f g'ltquv'kv' dgecvug' { qw'ecp'yj g'cnpg'yj g'uj gml'qh'yj g'eqpvckpgt'yj j lej 'ecp'rgcf 'vq'cp'gZR nqkqp0'

**Make sure that all cylinders are chained or secured in an upright position.**

- ÉÁ F q'pqv'cmqy 'yj g'e { rkp'f gtu'vq'rc { 'qp'yj gk'ukf gu0Nks wkf 'o c { 'gpvgt'yj g'j qug'cpf 'ecwug'r tqdrgo u'lp' vj g'xcr qt'yj kj f tcy cdu' u'ngo 0'
- ÉÁ I cu'e { rkp'f gtu'ecp'dgeqo g'f cpi gtqwu'o kuukgu'kh'yj g'ugcn'dgwy ggp'yj g'ecukpi 'cpf 'yj g'xcrk'g'ku' dtqngp0'

**When lighting a torch, use a spark generator.**

- ÉÁ F qp)'wug'o cvej gu'qt'hi j vgtu'vq'hi j v'vqtej gu0'
- ÉÁ Cpf 'pgxgt'uo qng'lp'cp'ctgc'yj j gtg'yj gtg'ku'r tqr cpg'i cu0'

**When shutting off the gas, close the regulator and allow the excess gas in the hose to burn off.**

Rtqr cpg.'cu'y gml'cu'cp { 'qyj gt'eqo r tguugf 'i cu.'f go cpf u' { qwt'tgur gev00 kuwukpi 'c'e { rkp'f gt'qt'cmqy kpi 'kv'vq' hml'ecp'r qug'i tgcvf' cpi gtu'vq' { qw'cpf' { qwt'eq/y qtngtu0'

aa"

**Vtcklpi 'Vkr-u'**

- ÉÁ F go qpwtcv'yj g'eqttgev'y c { 'vq'r w'qp.'qr gp.'cpf 'erqug'c'tgi wrcvqt0Cum'yj g'hqm'y kpi 's wgunkqpu'< Y j { 'ecp)' { qw'uo qng'yj j gtg'r gqr rg'ctg'wukpi 'r tqr cpg'i cu.'kh'ku'u'c'e { rkp'f gtA" Y j { 'ecp)' { qw'wug'c'vqtej 'vq'yj cy 'c'e { rkp'f gtA"



# TOOL BOX SAFETY TALKS

## TORCH-APPLIED SYSTEMS

**Be careful when lighting a torch and when handling a lighted torch.**

ÉÁ Ej genlcm'eqppgevkpu'hqt'ngcm'dghqtg" { qw'uctv'uq'vj cv'i cu'y knlpqv'guecr g'cpf "etgcvg"cp"  
ÉÁ wmpqy p'hk'g'j c| ctf 0'  
ÉÁ Nki j v'vj g'vqtej 'y kj 'c'ur ctnfi gpgtcvqt.'pqv'c'o cvej "qt'c'hki j vgt 0'  
ÉÁ Kk'vj g'vqtej 'ku'f guki pgf 'vq'dg'rcf 'f qy p'y j kg'rkv'o cng'wutg'vj g'wuthceg'y j gtg" { qw'rc { 'k'ku"  
pqp/hco o cdrg 0'  
ÉÁ P gxgt'gxcg'c'hki j vgf 'vqtej 'wpcwpgf gf 0'  
"

**Do not torch directly to a flammable substrate.**

ÉÁ Uwthcegu'uwej 'cu'r n' y qqf 'qt'y qqf 'hkdgt'pggf 'vq'dg'eqxgtgf 'y kj 'c'pqp/hco o cdrg'o cvgtkcn'uwej "  
cu'c'dcug'r n' 'qh'cur j cm'hgn'dghqtg'vqtej kpi 'vj g'o qf kkgf 'dkwo gp'o go dtcpg 0'  
"

**When working on existing structures, especially those with wood decks, use extra caution at wall terminations and around projections.**

ÉÁ F wuv'rkpv'qkn'cpf 'i tgcug'ecp'cmiceewo wrcv'lp'vj gug'ctgcu'cpf 'o c { 'dg'gcukn { 'ki pkgf 'd { 'vj g'vqtej 0'  
P gxgt'vqtej 'lpvq'cp'ctgc'vj cv' { qw'ecppqv'ergetn { 'ugg 0'  
"

**It's essential to perform a fire watch for at least one hour after the last torch is turned off.**

ÉÁ Hk'gu'y knlqhngp'uo qrf gt'hqt'cp'j qwt'qt'o qtg'dghqtg'dwtv'kpi 'lpvq'hco gu 0'  
ÉÁ C'vj qtqwi j 'lpur gevqp'cdqxcg'cpf 'dgm'y 'vj g'f genluj qwf 't'gxcgn'cp { 'j qv'ur qw'lp'vj g'tqqh 0'  
"

**Wear proper PPE when using a torch.**

ÉÁ Ngcvj gt 'i rixgu'y kj 'i cwpwgu 0'  
ÉÁ C'hqpi /ungxgf 'uj kv 0'  
ÉÁ G { g'r tqvgevqp 0'  
ÉÁ Uwtf { 'y qtnldqqw 0'  
"

Htqo 'hki j vpi 'cpf 'j cpf rkpi 'vj g'vqtej 'vq'rc { kpi 'vj g'j gcvgf 'u { ugo . 'vqtej /cr r rkgf 'u { ugo u'r t'gugpv'ugt'kwu"  
j c| ctf u 0| qw'cpf 'cm'qh { qwt'eqy qtngtu'pggf 'vq'dg'gzv'tgo gn { 'ectghw'luq'vj cv' { qw'f qp'v'dwtp' { qwtug'xgu'qt"  
ecwug'ugt'kwu'r tqr gtv { 'f co ci g 0'  
"

aa"  
"

### Vtclhpi 'Vkr'u'

ÉÁ F go qpwtcv'vj g'hki j vpi 'r tqegf wtg 0'  
ÉÁ Gzr rclp'vj g'tgur qpukdk'kgu'qh'vj g'hk'g'y cvej 0'  
ÉÁ Cun'ij g'hqm'y kpi 's wguv'kpu<  
Y j cv'y knl'j cr r gp'kh { qw'hki j v'vj g'vqtej 'cpf 'vj gtg'ctg'ngcm'lp'vj g'j qug'vj cv' { qw'f kf p'v'  
pqv'egA"  
Y j cv'ecp'tguwn'htqo 'wpcwcej gf 'j qv'ur qw'lp'vj g'tqqhA"  
"



# TOOL BOX SAFETY TALKS

## HAZARD COMMUNICATION

The hazard communication standard is an employee right-to-know law.

ÉÁ [ qw'p'ggf "v'q'npqy 'y j cv'ej go lecn'cpf 'tqqlhpi 'r tqf wev'ctg'j c| ctf qwu'v'q' { qwt'j gcnj . "cpf 'npqy " j qy 'v'q'uchgi wctf "{ qwtugrh'ci clpuv'yj go 0'

ÉÁ [ qwt'go r m'j { gt'j cu'c'y tkwgp'j c| ctf 'eqo o wplecvkqp'r qrle { "cpf 'r tqi tco 'yj cv'kpenmf gu'yj g" hqmgy lpi 'kgo u<

Ej go lecn'Rtqf wev'kpxgpvqt { "Nkuv"

O cvgtken'Uchgv { 'F cv'Uj ggw'\*O UF U+ "

Ncdgnlpi 'kphqto cvkqp' "

Vtclpki 'Tgs wktgo gpu'cpf 'Tgeqtf u"

ÉÁ Vj ku'o wuv'dg'ngr v'cv' { qwt'y qtmukg'uq'yj cv' { qw'j cxg'ceeguu'v'q'k'cv'cm'ko gu0'

ÉÁ Cuml { qwt'uwr gtxluqt'qt'hqtgo cp'kh' { qw'j cxg'cp { 's wguv'kpu'tgi ctf lpi 'j c| ctf qwu'o cvgtken0'

"

## Chemical/Product Inventory List

ÉÁ C'kuv'qh'cm'j c| ctf qwu'ej go lecn'uj qwr' 'dg'ngr v'y kj 'y g'y tkwgp'r qrle { "cpf 'O UF Uu0'

"

## Material Safety Data Sheets (MSDS)

ÉÁ C'O UF U'o wuv'dg'r tgugpv'hqt'gcej 'j c| ctf qwu'ej go lecn'qt'r tqf wev'qp'ukg0'

ÉÁ Hqt'o kzwatgu.'yj g'O UF U'y knlf gpv'h { "cm'qh'yj g'ej go lecn'y kj lp'yj g'o kzwatg.'yj g'o kzwatgu" ej ctcevgtkvku.'cpf'cp { 'ko r qtwcpv'j c| ctf 'kphqto cvkqp0'

"

## Labeling Information.

ÉÁ C'ncdgn'o wuv'dg'ch'kzgf "v'q'gcej "eqpvclp'gt'qh'c'j c| ctf qwu'o cvgtken'kf gpv'h { lpi 'yj g'pco g'qh'yj g " r tqf wev.'yj g'pco g'cpf "cf f tguu'qh'yj g'o cpw'cewtgt.'cpf'j c| ctf 'kphqto cvkqp0'

ÉÁ Kphqto "{ qwt'uwr gtxluqt'kh'c'ncdgn'ku'pqv'qp'c'eqpvclp'gt.'cpf'f q'pqv'wug'wpv'k'ku'tgr m'egf "qt" tgrcdgrgf 0'

"

## Training Requirements

ÉÁ Vj g'QU C'ucpf ctf 'tgs wktgu' { qw'v'q'dg'vtclpgf "uq'yj cv' { qw'j cxg'hwnl'npqy r'gf i g'qh' { qwt' go r m'j { gt'u'y tkwgp'r tqi tco 'cpf'cm'j c| ctf qwu'o cvgtken'cv' { qwt'y qtmukg0'

ÉÁ O cng'uwtg'yj cv' { qw'w'pf gtucpf 'yj g'vtclpki "{ qwt'gegkxg.'cpf'yj cv' { qw'npqy 'j qy 'v'q'h'pf " kphqto cvkqp'lp'yj g'O UF Uu0'

"

"



# TOOL BOX SAFETY TALKS

## HAZARD COMMUNICATION \*eqp vkwgf +

aa

### Vtcklpi 'Vku'

ÉÁ J cxg"e"eqr { "qh'y g'eqo r cp { u'y tkwgp"j c| ctf "eqo o wplecvkqp"r qrle { "cxckrdng0'

ÉÁ J cxg"cp'O UF U'cxckrdng"q"uj qy "go r m { ggu0'

ÉÁ O cng"uwtg'yj cv'yj g { "mpqy "y j gtg'yj g'O UF Uu"cpf "yj g'eqo r cp { "j c| ctf "eqo o wplecvkqp"r qrle { "ctg" mcevgf0'

ÉÁ Cunt'yj g'hqmy lpi "s wguvqpu<

Y j cv'kphqto cvkqp"f q" { qw'hkpf "qp"r tqf wev'rdgnuA"

Y j cv'uj qwf " { qw'f q "kh" { qw'hkpf "cp"wp'rdnggf "eqpvkpgtA"

Y j gp"ecp" { qw'hqmi'cv'yj g'O UF UuA"



# TOOL BOX SAFETY TALKS

## MATERIAL SAFETY DATA SHEET (MSDS)

As part of the employee right-to-know law your employer is required to provide MSDSs for every hazardous chemical substance used at the company.

ÉÁ O UF Uu'y kn'xct { 'd { 'o cpw'cewtgt. "dw'vj g { 'y kn'cm'j cxg'cv'hcuv'gli j v'ugevkpu0'

The product will be identified by its scientific name and its common name, if it has one.

ÉÁ Go gti gpe { 'r j qpg'pwo dgtu'y kn'dg'rkugf 'kp'vj ku'ugevkqp. "cm'pi 'y kj 'vj g'pco g'cpf 'cf f t guu'qh'vj g" o cpw'cewtgt0'

The hazardous ingredients will be identified, along with information on how long you can be exposed to these ingredients.

The characteristics of the material are listed.

ÉÁ Ej go lecn'ej ctcevgtku'eu'ctg'kgo u'uwej "cu'dqk'kpi 'r qkp'v'cpf 'h'cu'j 'r qkp'v0'

ÉÁ Rj { ulecn'ej ctcevgtku'eu'kpen'f g'cr r gctcpeg. "eqmt. "cpf "qf qt0'

Fire and explosion data information is provided on how to extinguish fires caused by the material.

Another section provides information identifying chemicals that can be used and stored together, and substances that must be kept apart. This section is called "reactivity data".

Information about health hazards is in its own section.

ÉÁ Vj ku'ugevkqp'y kn'g'zr n'kp'vj g'uki pu'cpf "u { o r vqo u'qh'qxgtg'zr quwtg'uq" { qw'y kn'h'p'qy 'j qy 'v'q'v'gm' y j gp'v'q'q' o wej "qh'c'uwdu'cpeg'ku'kp" { qwt "u { ugo 0'

ÉÁ [ qw'y kn'cnu'q'dg'i kxgp'h'ku'v'ckf 'lph'qto c'vkp0Cny c { u'm'q'm'j gtg'dgh'qtg'uw' i gu'kpi "cp { 'n'k'p'f 'qh'h'ku'v' ckf. "d'ge'cwug'y j cv'o c { 'dg'vj g'dgu'v'tgcwo gpv'h'qt'qpg'uwdu'cpeg. "o c { 'dg'j cto h'w'ly kj "cp'q'vj gt0'

One section will provide steps to follow in the event of a spill or leak and will include ways to store and dispose of materials.

Finally, information is given concerning control methods, such as the type of personal protective equipment or ventilation systems to use."

aa"

### Vtck'kpi 'Vkr-u'

ÉÁ F kwt'kdwg'eqr kgu'qh'qpg'O UF U'cpf 'r qkp'v'q'w'vj g'ugevkpu0'

ÉÁ Cuni'c'pwo dgt'qh's wgu'vkpu'cdq'w'vj g'uwdu'cpeg'uq'vj cv'go r m { ggu'ngctp'v'q'tgcf 'vj g'uj gg'u0'"

Y j cv'ku'vj g'cr r gctcpeg'qh'vj ku'uwdu'cpegA"

Y j cv'go gti gpe { 'r j qpg'pwo dgtu'ctg'rkugf A'

ÉÁ Uj qy 'vj go 'O UF Uu'htqo 'c'h'gy 'f'k'htg'gpv'o cpw'cewtgtu'uq'vj g { 'tgc'rk' g'vj cv'vj g'uj gg'u'ctg'p'qv' cny c { u'r t'kp'vgf 'kp'vj g'uco g'h'qto cu0'



# TOOL BOX SAFETY TALKS

## BURNS FROM HOT ASPHALT OR COAL TAR PITCH

Hot-asphalt or coal tar pitch burns are painful and often disfiguring.

ÉÁ J qv'uwth'y kn'ukem'v'q'cm quv'cp{ 'uwthceg. 'lpenmf kpi 'hguj 0'  
ÉÁ K'eqp'kpwgu'v'q'dwtp'yj g'uwthceg'k'j cu'ncpf gf 'qp'wv'k'k'j cu'eqqngf 0'  
ÉÁ Vj gug'dwtpu'ctg'xgt { 'r clphw'ncpf 'y j g{ 'ctg'gzvgo gnf 'f k'k'k'k'k'v'q'engcp0'  
"

Wearing the appropriate personal protective equipment (PPE) will help prevent burns.

ÉÁ Y j gp' { qw'y qtnly kj 'j qv'uwth' { qw'uj qwf 'y gct<'  
Nqpi /urgxgf 'uj k'v'v'j cv'dwqpp'qxgt 'y g'ewh'u'qh'i nqngu="'  
Nqpi 'ewh'ngu'r cpw'yj cv'eqo g'qxgt 'y j g'qr u'qh'qxgt/yj g/cpnm'eqpuwv'k'p'dqqv0'  
J ctf 'j cw'ncpf 'hceg'uj kgrf u.'hqt'yj qug'y j q'qr gtcv'ngw'gu'ncpf 'hwi i gtu="ncpf ""  
Cv'igcuv'i qi i ngu'hqt'yj g'o cr r gtu0'  
"

It's important to understand how to respond to burns.

ÉÁ Y j gp'yj g'j qv'ku'uk'neqo r ngv'nf 'h'k'v'f 'em'yj kpi 'ecp'dg'tgo qxgf 's'w'k'nm' { 'dw'qpeg'k'j cu'dgi wp'v'q"  
j ctf gp'f'q'p'qv'v' { 'v'q'tgo qxg'yj g'cur j cn'qt 'em'yj kpi 'cv'cn0'  
ÉÁ Eqqn'yj g'dwtp'ctgc'y kj 'y cvgt'qpn' 'v'q'j cuvgp'yj g'j ctf gpkpi 'ncpf 'eqq'kpi 'qh'yj g'j qv0'  
ÉÁ P gxgt 'cr r n' { 'q'k'p'o gp'v'0'k'y kn'qpn' { 'j cxg'v'q'dg'r clphw'nf { 'tgo qxgf 'cv'yj g'j qur kcn0'  
ÉÁ J qv'dwtpu'ctg'wuwcm' { '4pf 'qt'5tf 'f gi tgg'dwtpu.'ncpf 'ecp'dg'h'k'g/yj tgcvgpkpi 0

The seriousness of a burn is key in determining appropriate treatment. "

ÉÁ C'h'ku'v'f gi tgg'dwtp'r tqf wegu'qpn' { 'tgf pgu'ncpf 'uy gmkpi '"/'h'k'g'c'uw'pdwtp0'  
ÉÁ C'ugeqpf 'f gi tgg'dwtp'ku'lpf kcv'gf 'd { 'dr'k'ugtkpi 0'  
ÉÁ C'yj kf 'f gi tgg'dwtp'y kn'uj qy 'k'ug'hi'k'p'yj g'hqto 'qh'f'ctm'ej cttgf 'un'kp0'  
ÉÁ O gf kcn'c'wgp'k'p'o wuv'dg'uqwi j v'ko o gf kcv'nf 'hqt'g'k'j gt'4pf 'f gi tgg'dwtpu'yj cv'eqxgt'c'h'cti g'ctgc"  
qh'yj g'dqf { '\*qt'cp { 'ctgc'gpeqo r cuukpi 'y j g'j gcf . 'i gpkcnu.'qt'gzvgo k'kgu+.'qt'cp { '5tf 'f gi tgg"  
dwtpu0'  
"

If medical attention has been called:

ÉÁ Mggr 'y j g'r gtuqp'cu'eqo hqt'cdng'cu'r quukdng'y j k'g'cp'co dw'ncpeg'ku'ecmgf 0'  
ÉÁ Y cvej 'hqt'uki pu'qh'uj qen'/'f k'cv'gf 'r w'k'u'="r cng.'en'o o { 'un'kp="uj cnqy . 'ktgi wrct'dtgc'yj kpi ="ncpf "  
ter k'f 'qt'y gcn'r wng'/'ncpf 'gr'gxcv'g'yj g'r gtuqp'u'hggv'k'h'yj gug'uki pu'ctg'r t'gugpv0'  
"  
"

aa"  
"

### Vtcl'k'p'pi 'V'k'u'

ÉÁ Cuni'k'k'cp { qpg'j cu'dggp'dwtpgf 'h'qo 'j qv'qt'j cu'gxgt'uggp'c'eqy qtngt'dwtpgf 0'Gpeqwtci g'yj go "  
v'q'f'k'uew'u'yj g'k'p'kf gp'v0'  
ÉÁ Cuni'yj g'hqmqy kpi 's'w'g'uk'qpu<'  
Y j { 'ku'k'ko r qtv'cpv'v'q'y gct'ewh'ngu'r cpw'yj j gp'y qtnkpi 'y kj 'j qvA"  
Y j { 'ku'k'ko r qtv'cpv'v'q" y gct'v'ki j v'h'k'v'kpi 'i nqnguA"  
"



# TOOL BOX SAFETY TALKS

## HOT ASPHALT PROTECTION

**Personal protective equipment (PPE) should always be worn when working with hot asphalt. Full PPE consists of:**

- Long pants with no cuffs that cover the tops of the boots,
- A long-sleeved shirt, buttoned at the cuff and within one button of the collar,
- Boots with thick rubber or composite soles,
- Gloves with snug-fitting cuffs,
- Goggles or safety glasses, and
- A full faceshield and a hard hat when tending a kettle.

**Safe work practices are as important as proper PPE selection.**

- Remember to check all hot-handling equipment and make sure it isn't wet or icy, because water can cause hot asphalt to spatter.
- Keep kettle lids closed except when you are skimming the asphalt or adding bitumen.
- Keep the filler holes covered when you're not filling the lugger.
- Turn mop carts and buckets over at the end of the day.
- Spin mops out at the end of the day.
- When buckets are stuck, twist to free them. Do not pull or jerk the bucket, or the hot asphalt may splash.
- Carry hot buckets on the downhill side of sloped roofs.
- Do not fill buckets more than three-quarters full.
- Be careful not to step in fresh hot or on asphalt that has recently been wetted, because asphalt is extremely slippery in both of these conditions.

**Quick response with first aid can ease the damage burns can cause.**

- Call for emergency services immediately.
- Cool the burned area with water. Do not apply burn creams or salves.
- Do not remove bitumen, asphalt, or clothing from the burned area.

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### **Vtchlpki 'Vkr u'**

- Ask for a show of hands of workers that have been burned. Ask them if the incidents might have been prevented, and if so, how.
- Later in the day, ask one of the hot mappers what he would do if someone slipped in the asphalt and got hot stuff all over his arm.
- Review emergency medical procedures.
- Ask someone to review the list of proper PPE.
- Ask the following question:  
Why is it important that there not be water or ice in the kettles, luggers, or buckets?



## TOOL BOX SAFETY TALKS

# HOT ASPHALT SAFETY

**The first line of defense against hot asphalt is personal protective equipment (PPE).**

É G{g'r tqvgevqp'ku'etk'ecrñ  
 O cng'wutg'i ncuugu'qt'i qi i ngu'ctg'CP UKt'cvgf "cpf "ergcp0"  
 Kf' { qw'ctg'c'ngwgo cp. 'y gp'y gct'c'hc'eg'uj kgrf "cwcej gf "v'q'c'j ctf "j cv'q'xgt 'y g'i ncuugu0'  
 É [ qwt'uj kt v'o wuv'j cxg'mpi "urgxgu'y cv'eqxgt 'y g'ewhu'qh' { qwt'i m'xgu0  
 Dwwqp'y g'vqr "qh' { qwt'uj kt v'q'y kj kp'qpg'dwwqp'qh'y g'eqmct0'  
 É Qpg'qh'y g'ng' { 'r ctvu'qh' { qwt'RRG'ku' { qwt'i m'xgu0  
 Eqwqp'i m'xgu'ecp'r tqxkf g "o k'p'o cñr tqvgevqp'dw'hc'v'j gt'r tqxkf gu'w'w' gt'k'qt'r tqvgevqp0'  
 P g'xgt'y gct'twddgt'i m'xgu'y j gp'j cpf r'kpi "j qv0"  
 O cng'wutg'y gtg'ctg'p'qv'i cwp'v'gu'qp' { qwt'i m'xgu0"  
 Vven'y g'ewhu'qh'y g'i m'xgu'w'pf gt'y g'dwwqpgf "ewhu'qh' { qwt'uj kt v'  
 É Rcpv'igi u'uj qwf "eqo g'q'xgt 'y g'vqr u'qh' { qwt'y qtn'iddq'w'w' "cpf "dg'ewh'ngu0  
 É [ qwt'y qtn'iddq'w'w'uj qwf "j cxg'q'xgt/v'j g/cp'm'g'hc'v'j gt'w'r r'gtu'cpf "j gcx { "u'q'ngu0

**Use of good work practices will prevent any avoidable spilling and spattering of hot asphalt.**

É Mggɾ 'nwi i gtu'cpf 'ngwɾgu'htgg0hqto 'o qkɾwt'g'uq'yj g'cur j cn'y kn'pqv'ur cwtg0  
É Fq'pqv't { 'vq'r wɾndwengw'qh'cur j cn'qh'h'qh'yj g'tqqh'h'h'yj g{'ctg'uwwem=y kn'y go 'htgg'uq'} { qw'f q  
pqv'ur ncu j 'vj g'j qv0

**Keeping the asphalt at its optimum temperature, and standing upwind of the kettle, lugger, or bucket will minimize your exposure to asphalt fumes. Although they are not dangerous, asphalt fumes can be irritating.**

**Much of the danger associated with hot asphalt can be avoided with safe work practices. Using appropriate PPE will minimize the potential for injury from occasional splashing or splattering of hot.**

[illegible]

*Vtckpki 'Vkr u'*

É Uj qy "f hgt gp v{r gu'qh"RRG"cpf "g zr mlp"j qy "gcej "r tqxkf gu'r tqvgevkp"lt qo "j qv'cur j cn0  
É Uj qy "go r m{ ggu'y j gtg'v' hpf "y j q'r vo wo "go r gtcwgtg"\*GXV+"qp"y j g'cur j cn'hgi "hcdgr0  
É Uctv'y g'v'clpki "uguukp"ftguugf "lpcrr tqr tlcvgf "hqt'y qtnkpi "y kj "j qv."cpf "cum'y g'etgy "v  
kf gpv'h{ "y j cv'u'y tqpi "y kj "{ qwt'ugrgevkp"qh"RRG0  
É Cum'y g'hqmgy kpi "s wguvkpu<  
Y j {"uj qwrf "{ qw'o cng"uwtg'v'y gct "i mpxgu'y kj qw'i cwpvrguA"  
Y j cv'hpf u'qh'y qtnlr tcevgu'y knlr tngxgpv'ur knu'cpf "ur cwgtu'qh"j qv'cur j cnA"



# TOOL BOX SAFETY TALKS

## KETTLE OPERATIONS – SET-UP AND START-UP

### Position the kettle carefully in relation to the building and pedestrians.

- É Vt { "vq'nggr "vj g'ngwrg"cy c { "htqo "y kpf qy u."ck'kpcng. "cpf "gzkv'f qqtu0
- É Kp'vj g'xlekpki { "qh'cp'ck'kpcng. "eqpukf gt "eqxgtkpi "vj g'kpcng"y kj "r muke0T go go dgt "vq'crgt'v'vj g dwkf kpi "o clpvgpcpeg'f gr ctwo gpv'dghqtg'vj ku'ku'f qpg0
- É Vj g'ngwrg'rkf "uj qwf "qr gp"cy c { "htqo "vj g'dwkf kpi 0
- É Megr "vj g'ngwrg'rkf "enugf "y j gpgxgt' { qwtg'pqv'mcf kpi "cur j cn'uq'vj cv'pqv'cu'o cp { "hwo gu'ctg tgrgcugf 0
- É Dcttkecf g'vj g'ngwrg"ctgc'kh'r gf gwtkpu'j cxg'ceegu'uq'vj g'ctgc0

### Position the kettle in the most stable location.

- É Nqecvg'cp'ctgc'y j gtg'vj g'i tqwpf "ku'ngxgn'cpf "hto 0
- É Ucpf. "mqug'f kv'qt'vpgxgp'i tqwpf "o c { "cmqy "vj g'ngwrg'vq'uj kh'v'cpf "r quukdn' "vkr "qt'ur kn0
- É Ej qen'vj g'y j ggm'qh'vj g'ngwrg'vq'r tngxgpv'o qxgo gpv0

### Always wear the proper personal protective equipment (PPE).

- É Nqpi "r cpw'y kj qw'ewhu'uj qwf "eqo g'qxtg'vj g'vqr u'qh'uwtf { "y qtnldqqw0
- É Nqpi "urgxgf "uj kv'ewhu'uj qwf "dwwqp'qxtg'vj g'ewhu'qh'cr r tqr tlcvg'i mxgu0
- É G { g'cpf "hceg'r tqvgv'qp'o wuv'dg'r tqxkf gf "d { "c'hceg'uj kgrf "cvcej gf "vq'c'j ctf "j cv0Uchgv' "i mugu qt'i qi i ngu'wvf gt "vj g'hceg'uj kgrf "y kn'r tqxkf g'cf f kkpccr' tqvgv'qp0

### Be careful and precise when lighting the burners.

- É Cny c { u'tgcf "cpf "hqmqy "vj g'o cpw'cewtgtu'tgeqo o gpf cvkpu0
- É F qp)'wug'o cvej gu'qt'rk j vgtu/"kh'vj g'ngwrg'ku'pqv'gs vkr r gf "y kj "cp'cwq/rki j v'hgcwtg. "vj gp'wug'c ur ctni gpgtcvt0
- É Uctv'vj g'dwpgtu'umy n' . "cpf "i tcf wcm' "kpetgcug'vj g'vgo r gtcwtg'wpv'kn'cur j cn'ku'htgg/hqy kpi ctqwpf "vj g'wdgu0
- É O cng'uwtg'vj cv'Sr wni'qws"dwtpgtu'ctg'cko gf "f kgevn' "f qy p'vj g'wdgu'uq'vj cv'vj g'wdgu'f q'pqv'i gv y ctr gf "qt'etcengf 0
- É Kpur gev'vj g'eqppgev'kpu'qp'vj g'r tqr cpg'vcpm'cpf "ngwrgu0

### Several simple precautions can prevent fires.

- É F wtkpi "tghwgrkpi . "uj w'qhh'gpi kpgu'cpf "f qp)'cmqy "cp { qpg'kp'vj g'ctgc'y j q'ku'uo qnkpi 0
- É Hro o cdrg'cpf "eqo dwukdn'o cvgtknu'uj qwf "dg'ngr v'cv'hcuv'32'hggv'cy c { "htqo "vj g'ngwrg0
- É Rtqr cpg'vcpm'pggf "vq'dg'wr tk j v'cpf "ugewgf 0
- É Vj gtg'uj qwf "dg'cv'hcuv'vy q'CDE'htg'gzv'kpi vkuj gtu'lp'vj g'ctgc/"dw'pqv'uqtf "qp'vj g'ngwrg0



## TOOL BOX SAFETY TALKS

## KETTLE OPERATIONS – SET-UP AND START-UP *equipment*

[illegible]

*Vtckpki 'Vkr u'*

- É F go qpuntcvg'yj g'r tqr gt'y c{ 'q' hñ j v'c'ngwrg0  
É Uj qy "yj g'go r m{ ggu'yj g'xctkquw'v{ r gu'qh'ngwrgu'yj cv'dgmppi "q" { qw'eqo r cp{ . 'cpf' r qkv'qw'cp{  
hgcwtgu'yj cv'f khtg' hqo "ngwrg'q'ngwrg0  
É Veng'go r m{ ggu'q' yj g'qwukf g'qh'c'dwuf kpi "cpf' cum'yj go "q' f gekf g'qp'yj g'r gthgev'ur qv'hqt'c'ngwrg  
cpf' g'zr rckp'yj j { 0  
É Cumihqt'uvqtkgu'qt' g'zr gtlgpegu'y kj "ngwrgu'q'f go qpuntcvg'yj g'pggf' hqt'uchgv{ 'o gcuwtgu0



# TOOL BOX SAFETY TALKS

## LUGGERS AND MOP CARTS

Luggers and mop carts are designed to transport Hot from the kettle outflow pipe to the employees.

**When you're not filling a lugger, make sure to:**

- É Mgr "j g'kngt'pgeñeqxgtgf."cpf
- É J qmñc'ecvej /dwengv'qp'j g'gpf "qh'j g'r k'g'v'eqmgev'f tkr u'cpf 'mgr "j g'ctgc'engcp0

**When you're ready to fill the lugger, make sure:**

- É Vq'ej gen'j cv'j g'xcnkgu'ctg'uj w.
- É Vj gtg'ku'pq'y cgt'qt'o qkwtg'lp'j g'ñi i gt'j cv'y kn'ecwug'j g'cur j cn'v'ur cwt.
- É Vq'ej qen'j g'y j ggu.
- É [ qw'ctg'y gctkpi "cr r tqr tlcg'r gtuqpcñr tqvge'xg'gs wkr o gpv'RRG+."cpf
- É [ qw'pgxgt'hknk'o qtg'j cp'j tgg/s wctvgtu'hwn0

**After you've filled it and before you move it, make sure that:**

- É Vj g'r cv'j "qh'tcxgnku'ngxgn'cpf "engct'dghqtg" {qw'o qxg'j g'ñi i gt.
- É [ qw'cng'pqv'qh'cm'dtkf i gu'cpf 'tco r u.'cpf
- É Vj g'ñi i gt'u'y j ggu'ctg'htgg'hqto 'f gdtku'cpf "ecp'wtp'gcuñ { "q'o kpo k'g'j g'r quukdkk { "qh'kv qxgtwtpkpi 0

Wug'qpn { "gs wkr o gpv'kpenmf kpi "j gcx { /f w { "dwengv'cpf "r qwtkpi "ecpu."j cv'j cxg'dggp'f guki pgf "hqt"j qv'cur j cn0  
F q'pqv'o qf kh { "j g'gs wkr o gpv0"

Vj g'Uug'qh'ñi i gtu'cpf "o qr "ectw'j cu'o cf g'tcpur qtvpki "j qv'cur j cn'cetquu'j g'tqqh'c'tgn'xgn { ""  
uko r ng'o cwtg0K'ku'cnu'uchg'kh'uko r ng'i wk gkpgu'ctg'hqmy gf 0Dw'kh { qw'ctgp'ectghm0y j gv'gt { "qw'ctg'j g"  
ñi i gt"qr gtcvt"qt"o qr "r gt."k'y kn'pqv'dg'uko r ng'qt'uchg0K { qw'f q'pqv'y gct { "qwt'RRG'qt'kh { qw'f q"  
uqo gv'kpi "j cv'tguwu'lp'cp'cur j cn'ur km { "qw'qt"uqo gdqf { "gnug'o c { "dg'ugxgtgn { "dwtpgf 0"

aa"

### Vtcklpi 'Vkr u'

- É F go qpwtcv'j g'r tqegu'qh'hknkpi "c'ñi i gt."r qkvpki "qw'cm'qh'ku'hgcwtgu'cpf "gzn'cklpi "j g uchgv' "o gcwtgu0
- É Cmgy "etgy "o go dgtu'v'r wuj "j g'ñi i gt'y j gp'k'ku'j tgg/hqwtv u'hwn'lu'j g { "ecp'i gv'c'hggn'hqt'kv \*o cng'wug'j cv'j g { "ctg'y gctkpi "j gk'RRG+0
- É Kputvev'j go "v'hqm'ctqwpf "j g'tqqh'cpf "vgn { "qw'cdqww'cp { "j c| ctf u'j g { "ugg'lp" { qwt'r cv'j "qh txcgn { "qw'o ki j v'y cpv'v'r neg'uqo g'j kpi u'j gtg'dghqtg'j g'Vqqndqz "Vcm0
- É Cun'j g'hqmy kpi "s wgu'kpu<
  - Y j { "o wu { "qw'o cng'wug'j cv'j gtg'ku'pqv'o qkwtg'lp'j g'ñi i gtA'
  - Y j cv'j kpi u'uj qwf { "qw'ej gen'dghqtg" { qw'o qxg'j g'ñi i gtA'
  - J qy "hwn'uj qwf { "qw'hkn'ñi i gtuAO qr "ectwA'



# TOOL BOX SAFETY TALKS

## HOUSEKEEPING

### Roofing jobs, especially tear-offs, create a large amount of debris.

- É Gztc'o cvgtkcn'h{ kpi 'cdqww'y g'lqdukg'ctg'j c| ctf u."cpf'ecp'tguwn'lp'tkr u'cpf'hcnu0
- É Mgr kpi 'wr 'y kj 'y g'tcu'cu' q'w'i q'ku'o wej 'gcukgt'y cp'y cklpi 'vq'ergcp'k'cni'wr 'cv'y g'gpf 'qh'y g f c{0

### Good housekeeping incorporates simple guidelines.

- É Mgr 'cm'o cvgtkcn'cpf'tcu'cy c{ 'htqo 'gpt{ 'cpf'gzky c{ u'cpf'tgi wrt'hqqv'tchle0
- É O cvgtkcn'cpf'gs wr o gpv'o wuv'dg'uvqgf 'cv'rgcu'vukz'hggv'cy c{ 'htqo 'y g'tqqh'gf i g.'gze'v'qp'vkg cpf'o gcn'lqdu'y j gtg'y g'o cvgtkcn'o c{ 'dg'ucengf 'y tgg'hggv'htqo 'y g'tqqh'gf i g0
- É Vqqn'cpf'gs wr o gpv'uj qwf'dg'r w'cy c{ 'chgt'wug0
- É Qrf'tqqh'kpi 'o cvgtkcn.'tcu' .ueter 'y qgf . 'o cvgtkcn'eqpv'kpgtu.'cpf'qy gt'f gdtku'kgo u'pggf 'vq'dg f kur qugf 'qh'cv'tgi wrt'lpvtxcn0
- É Cni'hrco o cdrg'hs w'f u'o wuv'dg'uvqgf 'kp'cr r tqxgf 'uchgv' 'ecpu0

### Housekeeping includes proper storage of materials and equipment.

- É Uqtg'o cvgtkcn'cpf'gs wr o gpv'r tqr gtn' 'uq'y cv'y g{ 'ctgp'v'f co ci gf 'qt'uvqngp0
- É O cng'uwg'y cv'cm'ctr kpi 'cpf'cpej qtkpi 'ku'ugewt0

### Poor housekeeping presents hazards to employees, bystanders, and property.

- É Utkr u.'tkr u.'cpf'r wpewtg'y qwpf u'ctg'lwuv'c'hy 'qh'y g'dqf k' 'kplwtkgu'r gqr ng'ecp'uwvckp'qp o guu' 'y qtmukg0
- É Kf'f gdtku'ku'h{ kpi 'ctqwpf'qp'y g'tqqh'cpf'dm'y u'v'y g'i tqwpf 'k'ecp'ecwug'r gtuqpcn'qt'r tqr gtv' f co ci g0
- É F wtkpi 'tckpuqto u.'tcu' 'cpf'f gdtku'ecp'dgeqo g'nf i gf 'kp'f tckpu'cpf'o c{ 'tguwn'lp'hqqf kpi 'qt kp'c'eqmcr ug'qh'y g'tqqh0
- É Dvkr kpi 'qeewr cpw'ecp'dg'kpeqpxgplgpegf 'qt'kplwtgf 'kh'ceeguu'cpf'guecr g'tqwgu'ctg'pqv'hgr v ergct0

C'urqr { 'y qtmukg'ecp'tguwn'lp'cp'wpj cr r { 'dvkr kpi 'qy pgt'cpf'c'nguu'y cp/hcxqctdng'tgr tgu'pvc'kqp'qh' { qwt' eqo r cp {0

aa

### Vtcklpi 'Vkr u'

- É Nqqm'ctqwpf 'y g'ukg'cpf'ugg'kh'gxgt { y kpi 'ku'lp'qtf gt0
- É Uj ctg'uo g'kplwt { 'qh'r tqr gtv' f co ci g'enclo u' { qw'hpqy 'cdqww'y cv'y cxg'dggp'hk'gf 'ci c'kp'uv' { qwt eqo r cp { . 'qt'qy gt'eqo r cplgu.'hqt' j qwugnggr kpi / tgr'v'gf 'kpekf gpv0



# TOOL BOX SAFETY TALKS

## ROOF TRASH REMOVAL

**Roofing projects create large amounts of trash that need to be controlled.**

- É I qqf "j qwugnggr kpi 'ku'lo r qtvcpv'qp" c"tqqh0
- É Rqqt"j qwugnggr kpi 'etgcvgu'urk r kpi . 'tkr r kpi . 'hcnkpi . 'cpf "r wpewtg"j c| ctf u0
- É Rqqt"j qwugnggr kpi "cnuq"etgcvgu"cp"vpr tqhguukqpcnko ci g0
- É Qp'tqqhu'ngu'v'j cp'42'hggv'j ki j . 'tcuj "cpf "f gdtku'ecp"dg"quugf "qhh'd{ 'j cpf "dw'c"i wctf tcku'u{ ugo o wuv'dg"wugf "vq"r tgxgpv'hcm0

**Trash chutes provide one of the safest methods for removing trash from the roof.**

- É Vtcuj "ej wgu'ctg'tgs wktgf "y j gp'tqqhu'ctg"o qtg"v'j cp'42'hggv'j ki j 0
- É Vj g{ "o wuv'dg"ugewtgf "vq"v'j g'dwkrf kpi 0
- É C"i wctf tcku'u{ ugo "uj qwr"dg'r megf "ctqwpf "cpf "dgj kpf "v'j g"ej wg0
- É Pckic"4\$'d{ "6<r kgeg"qh'nwo dgt'lwuv'lp'htqp'v'q'h'v'j g"qr gpkpi "qh'v'j g"ej wg"vq"r tqxkf g"c"uvqr "hqt" c y j ggrdcttqy 0Vj ku'y kno cng'k'gculgt "vq"v'k' "cpf "f wo r "v'j g"mcf 0
- É C"ej clp"uj qwr"dg'r w'cetquu"v'j g"qr gpkpi "vq"v'j g"tcuj "ej wg"y j gp"v'j gtg"ku'pq"cevxk{ "cv'v'j g ej wg0

**Do not overload wheelbarrows.**

- É Mgr "v'j g"mcf "my "cpf "dncpegf "y j gp'tcpur qtvpki "tcuj "vq"v'j g"ej wg0
- É Y j gp'wtpkpi "c"y j ggrdcttqy . 'rgcp" { qwt"dqf { "urki j v{ "lpvq"v'j g'wtp0
- É Ki"v'j g"y j ggrdcttqy "i gu'cy c{ "htqo " { qw'gv'kv'i q0K'ku'dgwtg"v'j cp'r wnkpi "c"o wueng0
- É Qp"j qv'f c{ u"o cvgtkn'ecp"ukeni"v'j g"y j ggrdcttqy "o cnkpi "kr r kpi "f cpi gtqwu0Gkj gt"nggr "v'j g o cvgtkn'y gv"qt"j cwluo cmgt"mcf u0
- É Ncti gt"mcf u"o c{ "tgs wktg"v'j g"wg"qh'c"j gcx { "f wo r "ectv'y kj "vy q'htqp'v'y j ggu"qt"r qy gt gs wkr o gpv'y kj "tckgtu0

**Using cranes to remove debris creates additional concerns for roof safety.**

- É C"i wctf tcku'pggf u"vq"dg'r megf "dgw ggp"v'j g"y qtngt "cpf "v'j g"gf i g"qh'v'j g'tqqh0Rqukkqpkpi "f gxlegu y kj "dqf { "j ctpguugu"o wuv'dg"wugf "y j gp" c"ugi o gpv'qh'v'j g"i wctf tcku'ku'tgo qxgf 0
- É Cm'r gtquppgn'o wuv'uc { "qw'htqo "wpf gt"v'j g'uwur gpf gf "mcf 0
- É Y j gp"y qtnkpi "y kj . "qt"ctqwpf . "etcpgu"j ctf "j cu'w'v'j wuv'dg"y qtp0

aa

### Vtcklpi 'Vkr-u'

- É Vt { "vq"j cxg"v'j g"o ggvpki "kp"v'j g'xlekpki { "qh'v'j g"tcuj "j cpf nkpi "ctgc."y kj "i wctf tcku'ugv0
- É Gpeqvteci g"i kuewukqp"cdqw"j cpf nkpi "tcuj "qp'tqqhki "r tqlgew<
- É Cun'v'j g'hmqy kpi "s wguvkpu<  
Cv'y j cv'j gki j v'ctg"tcuj "ej wgu'tgs wktgf A"  
Y j { "o wuv'go r m { ggu'uc { "qw'htqo "wpf gt"mcf u'htkgf "d { "c"etcpgA"



# TOOL BOX SAFETY TALKS

## EYE PROTECTION

It's important to use eye protection in order to minimize the risk of injury.

There are different types of eye protection used in the roofing industry.

- É Vj g'f khtgtpv'v{ r gu'ctg<  
Uchgv{ 'i nuugu'\*engct.'r tguetkr vkp.'qt'vkpvgf +'y kj 'ukf g'uj kgrf u."  
I qi i ngu.'cpf'"  
Hceg'uj kgrf u0
- É Cmlr tqvgevkg'g{ gy gct'o wuv'dg'wco r gf'y kj 'CP UK4: 90V{ r kcm{.'uwpi nuugu'f q'pqv'j cxg'y'j ku  
cr r tqxcn'cpf'o wuv'pqv'dg'y qtp'qp'y'j lqd0

Always consider the job you will be doing so you can choose the proper eyewear.

- É J qv'uwvh'ej go kcnl.'r qy gt'vqnu.'h{ kpi 'pcku.'cpf'vgt'qhh'f gdtku'ctg'uqo g'qh'y'j g'dki i guv  
j c| ctf u'vq'y'j g'g{ gu0
- É Mgwrg'qr gtcvqtu'cpf'uj gg'v'o gxcn'uj qr'y qtngtu'uj qwrf'y gct'c'hwn'hceg'uj kgrf 0I qi i ngu  
wvf gtpgc'y'j g'uj kgrf'y knlr tqxkf g'cf f kkpccnr tqvgevkp0
- É I qi i ngu'o wuv'dg'y qtp'f wtkpi 'tqqh'ewwki.'ur wf f kpi.'vgt'qhh'i tlpf kpi.'cpf'tqqh'xcewwo kpi  
qr gtcvqp0
- É C'y grf kpi 'hceg'uj kgrf'y kj 'cr r tqr tlcvg'uj cf gf'hgpugu'uj qwrf'dg'y qtp'f wtkpi 'cp{ 'y grf kpi  
qr gtcvqp0

Make sure your eyewear is adjusted for fit and is maintained in good condition.

- É [ qwt'g{ g'r tqvgevqp'uj qwrf'dg'engcp'cpf'cxckcdng'hqt'ko o gf kcv'wug0
- É Vlpvgf'hgpugu'o c{ 'tgf wvg'g{ g'utguu'hqt'uqo g'lqdu0

Know what to do in case of an emergency.

- É Ngctp'dcule'hku'ckf'tgcvo gpv'hqt'cp'g{ g'lpwt{ 0
- É Cry c{ u'hpqy'y j gtg'y'j g'g{ g'y cuj 'dqwrg'cpf'hku'ckf'hk'ctg'hqecvgf 0

aa

### Vtcklpi 'Vlu'

- É Uj qy 'c'r ckt'qh'uchgv{ 'i qi i ngu'qt'i nuugu'cpf'r qkp'vw'y j gtg'y'j g'CP UK4: 9'o ctnkpi 'ku0
- É I q'xqgt'xctkqu'lqdu'cpf'gznclp'y j lej'hqto'qh'g{ g'r tqvgevqp'ku'dguv'hqt'y cv'ukwcvkp0
- É Cun'y g'hmqy kpi's wgvkqp<  
Y j { 'uj qwrf'hgwrg'qr gtcvqtu'y gct'c'hwn'hceg'uj kgrf A"



# TOOL BOX SAFETY TALKS

## GLOVES, CLOTHING AND SHOES

**Gloves provide substantial protection for your hands.**

- É Eqwqp'i nqngu'ctg'cr r tqr tlcvg'hqt'i gpgtcn'lqdukg'j c| ctf u0
- É Ej gen'ij g'O UF U'qt'cum'f qwt'uwr gtxluqt'hqt'yj g'o quv'ghgevkxg'r tqvgevqp'ci ckpuv'uqixgpw'cpf qvj gt'ej go kecn0
- É Ngcvj gt'r tqxkf gu'uwr gtlqt'r tqvgevqp'y j gp'f qwt'g'y qtnkpi 'y kj 'j qv'cur j cn'cpf 'uj gg'v'o gvcn'dw vj ken'o kn'eqwqp'i nqngu'ctg'ceegr wdr0

**Your clothing is your best line of defense against the elements and against work hazards.**

- É Nqpi 'ungxgf 'uj kw'cpf 'hpi 'r cpw'y kj qw'ewhu'y kn'r tqxkf g'uqo g'r tqvgevqp'htqo 'j qv'cur j cn'cu'y gm'cu'htqo 'ecpegt/ecwukpi 'wntcxkqrgv'tc{ u'vj cv'eqo g'htqo 'vj g'uwp0
- É Nki j veqrntgf . 'pcwtcn/hkdg'gf 'emvj kpi 'vj cv'eqxgtu'f qwt'vqtuq.'cto u.'cpf 'hgi u'y kn'cewcm'f 'nggr { qw'eqqrgt'vj cp'kh'f qwf qp'ny gct'cu'o wej 'eqxgtkpi OC'j cv'y kn'j gr 'cu'y gm0
- É Uwtf { 'emvj kpi 'o cf g'htqo 'pcwtcn/hkdg'gf 'hng'eqwqp'qt'y qqn'y kn'r tqvgev'f qw'htqo 'cn'luqtu'qh ueter gu.'dtwkgu'cpf 'dwtpu0

**Boots will protect your feet from sharp, heavy, and hot objects.**

- É Qxgt/vj g/cpmg'eqpuvewkqp'dqqw'y kj 'hcvj gt'wr r gtu'cpf 'j gcx{/f wv' 'uqrgu'ctg'vj g'o quv cr r tqr tlcvg'hqt'o 'qh'hqwy gct'hqt'c'rti g'pwo dgt'qh'tqqh'kpi 'lqdu0
  - É Uvggn'vqu'y kn'r tqxkf g'cf f gf 'r tqvgevqp0
  - É Vj g'uqrgu'qh'f qwt'dqqw'uj qwf 'dg'cr r tqr tlcvg'hqt'yj g'v'f r g'qh'tqqh'u'f ugo '{ qw'ctg'kpuv'cnkpi 0
- |                            |                           |
|----------------------------|---------------------------|
| <u>TqqhUfugo "</u>         | <u>K'gc nDqqvUqrgu'"</u>  |
| Dwkn/wr 'tqqh'kpi '"       | tddgt'eqo r qukv'g'uqrgu" |
| Ukpi ng'r n'f 'u'f ugo u'" | pgqr tggp'ltddgt'uqrgu"   |
| Cur j cn'uj kpi ngu"       | tddgt'uqrgu"              |

I nqngu.'emvj kpi 'cpf 'uj qgu'ctg'ko r qv'cpv'eqo r qpgpw'qh'f qwt'r gtuqpcn'r tqvgev'xg'gs wkr o gpv'Vj g'r tqr gt' eqo dlp'cvqp'y kn'r tqvgev'f qw'ci ckpuv'vj g'o clqtkv'f 'qh'j c| ctf u'qp'vj g'lqd'ukg0

aa"

### Vtcklpi 'Vlu'

- É Uj qy 'ugxgcn'f khtgtpv'v'f r gu'qh'i nqngu'cpf 'dqqw'OF kwewu'y j { 'f khtgtpv'uj qgu'cpf 'i nqngu'ctg cr r tqr tlcvg'hqt'f khtgtpv'lqdu0
- É Uj qy 'wr 'y gctkpi 'kpcr r tqr tlcvg'RRG'cpf 'cum'ij g'etgy 'q'eqo o gpv'qp'f qwt'i nqngu.'emvj kpi . cpf 'uj qgu0
- É Cum'ij g'hmqy kpi 's wguv'kpu<
  - Y j { 'ku'k'cny c{ u'c'i qaf 'kf gc'v'y gct'c'uj kv'qp'tqqh'kpi 'r tqlgewA"
  - Y j { 'uj qwf p)'r cpw'y kj 'ewhu'dg'y qtp'y j gp'y qtnkpi 'y kj 'j qv'cur j cn'A"



# TOOL BOX SAFETY TALKS

## HARD HATS

### Wear a hard hat:

- É Y j gpgxgt 'y gtg'ku'y qtnf qkpi 'qp'cdqyg' { qw=
- É Y j gp'y qtnkpi 'kp'y g'xlekp' { 'qh'c'y qkuv'qt 'c'etcp'g=
- É Kf' { qw'ctg'y qtnkpi 'ctqwpf 'ny /j cpi kpi 'utwewtgu'we'j 'cu'r k' gu'qt 'qxgtj cpi u=qt
- É Y kj 'c'heguj kgrf . 'h' { qw'ctg'c' hgwgt'p'cp0

**Like any other piece of personal protective equipment, the hard hat must be inspected on a regular basis and worn properly.**

- É Cm'j ctf 'j cw'o wuv'j cxg'c'uwur gpukqp'u' { ugo 'y cv'y kn'cduqtd'y' g'ko r cev'qh'c'hcnkpi 'qdlgev0
- É Vj g'uwur gpukqp'u' { ugo 'o wuv'dg'kpur gev'f 'tgi wctn' { 'hqt 'f co ci g0
- É J ctf 'j cw'y kj 'f ggr 'uetcvej gu'qt 'etcenu'qh'cp' { 'nkpf 'o wuv'dg'tgr nregf 0
- É Vj g'j ctf 'j cv'uj qwf 'dg'y qtp'y kj 'y g'dtko 'kp'y g'htqp'v'kp'qtf gt 'q'hw' { 'r tqvgev' { qwt'heg'htqo hcnkpi 'qdlgew0
- É Cm'j ctf 'j cw'o wuv'dg'wco r gf 'lpukf g'y kj 'y g'CP UKu' { o dqr0
- É Y j gpgxgt 'y g'j ctf 'j cv'ku'wvdlgev'f 'q'ugxgt g'ko r cev'k'o wuv'dg'kpur gev'f 0 Kf' y g'uwur gpukqp'ku f co ci gf 'k'ecp'dg'tgr nregf . 'dw'h'y g'uj gni'ku'f co ci gf 'y gp'y g'gpv'g'j ctf 'j cv'o wuv'dg
- É f kuctf gf 0

### Your hard hat must be kept in good condition.

- É F q'pqv'f tkn'j qrgu'kp'y g'j ctf 'j cv'q'kpetgcug'xgpv'k'v'kp0Vj ku'o cngu'y g'uj gni'y gcn'cpf 'k'o c { pqv'dg'cdng'q'y kj ucpf 'y g'hteg'qh'cp'ko r cev0
- É F q'pqv'r clpv'cp' { y kpi 'qp'y g'j ctf 'j cv'dgecwug'o cp' { 'r clpv'eqp'v'kp'uq'k'gpw'y cv'f gi tcf g r ncu'ku0

### Hard hats need to be worn regardless of weather conditions.

- É Qp'y kpf { 'f c { u' y g'j gcf dcpf 'uj qwf 'dg'cf lwvgf 'q'nggr 'y g'j cv'qp' { qwt'j gcf 0 E j kp'utcr u'ecp cnu'q'dg'wugf 'q'ugewt g'k'q' { qwt'j gcf 0
- É F wtkpi 'y g'y kpvt'o qp'y u'c'hggeg'k'kpi 'f guki pgf 'hqt'j ctf 'j cw'ecp'dg'upcr r gf 'kpq'r nreg ctqwpf 'y g'uwur gpukqp'utcr u0
- É Kp'y g'wuo o gt' { qw'o c { 'y kpm' { qw'y kn'dg'eqqrgt'y kj qw'y g'j ctf 'j cv'dw'ngcxkpi 'k'qp'y kn cewcm' { 'nggr' { qw'eqqrgt'd { 'uj kgrf kpi ' { qw'htqo 'y g'wvp0

aa"

### Vtcl'kpi 'Vlu'

- É J cxg'c'j ctf 'j cv'cxck'cdng'q'uj qy 'y g'CP UKu'wco r . 'j qy 'y g'uwur gpukqp'u' { ugo 'y qtnu'cpf 'j qy q'kpur gev'y g'j ctf 'j cv0
- É Cun'y g'hqny kpi 's wgu'kpu<
  - Y j cv'uj qwf p' { qw'r clpv' { qwt'j ctf 'j cv'qt 'f tkn'j qrgu'kp'k'A"
  - Y j { 'uj qwf' { qw'cny c { u'y gct 'k'y kj 'y g'dtko 'kp'y g'htqp'v'A"



# TOOL BOX SAFETY TALKS

## HEARING PROTECTION

Hearing protection is often overlooked as a form of personal protective equipment (PPE), but your hearing needs to be protected as much as your eyesight or any part of your body.

- É Wprkng'qy gt 'kplwtkgu.'uwej 'cu'ewu'cpf 'dtqngp'dqpgu.'j gctkpi 'mqugu'qlhgp'cng'vko g'vq'f gxgnr 0
- É [ qw'o c' 'hggf'kng' 'q'w'ctg'wugf 'v'q'y g'j ki j 'pqkug'cuuqekcvgf 'y kj 'eqpuxwvkwpp0Dw'gxgp'kh'y g pqkug'f qgup'v'dqy gt 'f'q'w' 'q'w'ctg'v'km'cv't'kum'qh'f gxgnr kpi 'c'j gctkpi 'mqu0
- É Cu'r gqr ng'i gv'qrf gt 'y'j gk'j gctkpi 'f gi gpgtcvgu.'y j lej 'o gcpu'k'i gw'y gcngr0J gctkpi 'ckf u'ecp co r rkh' 'y'j g'uqwpf u'y g' 'j gct0J gctkpi 'mqu'qp'y g'lqd'ku'f guxwvkg.'y j lej 'o gcpu'y cv'y g'gct'ku dgkpi 'kplwtgf.'pqv'lwx'y gcngrpgf 0J gctkpi 'ckf u'ecppqv'eqo r gpucvg'hqt'y ku'v' r g'qh'j gctkpi 'mqu0
- É Cm'uv'ngu'qh'j gctkpi 'r tqvgevqp'j cxg'pqkug'tgf wvkwpp'tcvkpi u0\*P TT+0Vj g'j ki j gt 'y ku'pwo dgt'ku=y j g'dgwgt'r tqvgevqp'f qwt'f gxleg'r tqxkf gu0P TT'u'ecp'dg'hqwpf 'qp'y g'j gctkpi 'r tqvgevqtu r cenxi kpi 0

One type of hearing protection commonly used in construction is the type that is worn in the ear.

- É Vj ku'v' r g'ku'i gpgtcm' 'f kur qucdng'gzr cpf cdng'hqco 'qt'y g'tgwucdng'hkwg'v' r g0
- É F qp'v'tgwug'f kur qucdng'r nxi u0
- É K'ku'ko r qtvcpv'v'g'f'cpf 'hqmqy 'cm'kpuxwvkwpu'y j gp'y gctkpi 'f kur qucdng'hqco 0F kur qucdng hqco 'tgs wktgu'y g'r nxi 'v'q'dg'tqngf 'dgvy ggp'y g'hkpi gtu.'kpugtvgf 'kpq'y g'gct'ecpcn'cpf 'j grf 'kp r nceg'v'p'v'v'j g'hqco 'ku'hwn' 'gzr cpf gf 0
- É Tgwucdng'r nxi u'uj qwf 'dg'engcpgf 'gcej 'vko g0y g' 'ctg'tgo qxgf 'htqo 'y g'gct0

Another type of hearing protection used in construction is the type that is worn over the ear (called ear muffs).

- É Vj gug'ecp'dg'o qwpvgf 'f k'gevn' 'qpq'j ctf 'j cw0
- É Vj g'gct'o w'hu'i gpgtcm' 'q'hhgt'c'urki j v' 'j ki j gt 'f gi tgg'qh'r tqvgevqp'y cp'y g'v' r g'y qtp'kp'y g gct0

J gctkpi 'r tqvgevqp'uj qwf 'dg'wugf 'y j gpgxgt'hqwf 'gs wkr o gpv.'uwej 'cu'tqqh'ewwgtu'qt'ew/qhh'ucy u.'ctg' gr gtcvgf 0'

aa"

### Vtckkpi 'Vlr-u'

- É J cxg'c'uco r ng'qh'gcej 'v' r g'qh'j gctkpi 'r tqvgevqp'cxckndng0
- É Rtcvleg'kpugt'kpi 'f kur qucdng'hqco 'r nxi u'ceeqtf kpi 'v'q'y g'f k'gevkpu'htqo 'y g'o cpwkcwtgt.'cpf y j gp'f go qpuxcvg'k'v'q'y g'r ctvlekr cpw0
- É K'hqco 'r nxi u'ctg'wugf 'qp'y g'lqd.'j cxg'gcej 'r ctvlekr cpv'kpugt'v'c'r ck'kpq'y gk'gctu0
- É Cum'y g'hqmqy kpi 's wgvkqup<  
Y j cv'f qgu'P TT'ucpf 'hqtA"  
K'k'r tghgtcdng'v'j cxg'c'j ki j 'P TT'xcnwg.'qt'c'nyy 'qpgA"



# TOOL BOX SAFETY TALKS

## PERSONAL PROTECTIVE EQUIPMENT

### Wear an ANSI-approved hard hat:

- É Y j gpgxgt "y gtg'ku'y qtni qkpi "qp"cdqyg" qw0
- É Y j gp'y qtnkpi "kp"y g'xlekpki "qh"y qkuv"qt"etcpq0
- É Kk" qw'ctg'y qtnkpi "ctqwpf"ny "j cpi kpi "utwewtgu"weej "cu'r k gu"qt"qxgtj cpi u0
- É Y kj "c"heg"uj kgrf . "k" qw'ctg"y ngwgo cp0

### Wear eye protection:

- É Cp{ xko g" qw'ctg"gzr qugf "q"ewwki . "dwtkpi . "ej k r kpi . "i tkpf kpi . "cr r n kpi "uqkpgwu"qt"y grf kpi 0
- É Cm'cr r tqxgf "g{ g'r tqvgevkqp"y kn'dg"uwo r gf "y kj "\$CP UK\ : 9\$0

### Wear hearing protection:

- É Y j gpgxgt" qw'ctg"ctqwpf "nywf "gs wkr o gpw0K"ecp" f gvgtkqtcvg" qwt"j gctkpi . "uq"cum" qwt uwr gt xkuqt "hqt" gct "r ni u"qt"o wthu0
- É Vj g"j k j gt "y g'pqkug"tgf wvkvq"tcvkpi "P TT+"y g"dgwgt"r tqvgevkqp" qw'y knj cxg0

### Wear hand protection:

- É Y j gp'y qtnkpi "y kj "j qv'cur j cn0Y j gy gt" qw'ej qqug"ngcy gt"qt"eqwqp. "y g'i nqngu'o wuv'dg upwi /hkwkpi "ctqwpf "y g'y tkuv"uq"y cv'y g{ "ecp"dg"wegf "wpf gt"y g'ewthu"qh" qwt"npi /ungxgf uj kv0
- É Y j gp'y qtnkpi "y kj "uqkpgwu"qt"qy gt"ej go kcnu0Ej genu0 UF U'uj ggu"qt"cum" qwt"uwr gt xkuqt"uq y cv" qw'ecp"ej qqug"y g'eqttgevv"r g'qh" nqngu0
- É Y j gp'y qtnkpi "y kj "uj ggvo gvcn'cpf "qy gt"uj ctr "qdlgevu0

### Wear clothing appropriate to your job.

- É Y j gp'y qtnkpi "y kj "j qv'cur j cn. "npi "ungxgu"ctg"y o wuv. "cu'y gm'cu"npi "r cpw'y kj qw'ewthu y cv'eqxgt"y g'qr u'qh"j gcx{ "y qtnidqqu0
- É Eqwqp"qt" f gpko "emv kpi "r tqxkf gu"y g'dguv'r tqvgevkqp0
- É Hqwy gct"o wuv'dg" f wcdng"cpf "f guki pgf "hqt"eqputwvkvq"y qtn0F hhtgtpv'lqdu'y knlf go cpf f hhtgtpv"v"r gu'qh'hqyv'r tqvgevkqp0Tgs vkt gf "hqqy gct"y knlf gr gpf "qp" qwt"lqd"uy qr "qt"hgrrf + tqqh'unqr g"\*ny "qt"unggr +cpf "tqqh"v"r g"dwkn/wr . "o gvcn'qt"uj kpi rnf +0

aa

### Vtcklpi 'Vku'

- É Chgt"i qkpi "qxgt"y ku'uj ggv. "cum"y g"go r nq{ ggu"kh"y g'ecp"ku"y g'RRG"y g{ "j cxg"q"y gct. "y kj qww nqknkpi "cv"y g"Vqqndqz"Vcm0
- É Gzr nkp"y cv'CP UKku"y g'Co gtlecp"P cvkqpcnUcpcf ctf u"Kpuvkwg. "cpf "y j gp"uqo gy kpi "ku"\$CP UK cr r tqxgf "k'o gcpu"y cv'k'o ggu"egt vkp"tgs vkt go gpw'hqt"uchgv" "cpf "r tqvgevkqp0
- É Cum"y g"go r nq{ ggu"kh"y g{ "hqqy "y j { "y gk"r cpw'ecp"y"j cxg"ewthu"uy"cur j cn" f qgup"r qqn"y gtg+ qt"y j { "y gk"i nqngu"j cxg"q"dg"wegf "wpf gt"y gk"ungxgu"uy"y cv"j qv'cur j cn"y qp"y"i gv'kvq"y g i nqngu0



# TOOL BOX SAFETY TALKS

## BACK INJURY PREVENTION

**The best way to prevent back injuries is to learn to lift properly. A few common sense tips can help you avoid injury.**

- Stretch frequently throughout the day in order to loosen up and keep your muscles prepared for work.
- Check the weight of an object before you lift it, by lifting a corner of the load.
- Get help if the object is heavy.
- Use equipment such as hoists, dollies, handcarts and forklifts whenever possible.
- Check the intended path of travel before you move an object to make sure that the path is clear.
- Before lifting, place one foot beside the load and one foot behind it. Make sure your feet are placed firmly so that you will not lose your balance.
- Firmly grasp the object you intend to lift. Keep your arms and elbows close to your body.
- Always keep the object you are lifting close to your body.
- Lift with your legs to support the weight. Lift the object straight up and don't twist or lean.
- Hold your head up when you lift, to keep your spine in its natural curved position.
- Do your best to maintain the curve in your lower back while lifting.

**It's important to maintain your body's power position.**

- Doing this will greatly reduce your chance of injury and give you the most lifting power.

**Getting help from other employees will allow you to do your job efficiently and safely.**

- If an object is heavy, ask a coworker for assistance.
- Communicate with the person assisting you, so you lift the load and set it down at the same time.
- If possible, both persons should carry the load while facing forward.
- If the load is very heavy, take rest breaks.

**Typically, back injury does not occur from one incident. It is the result of improper lifting over a long period of time. That's why it's so important to lift properly each and every time. You never know what will trigger a painful injury.**

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### **Vtcklpi 'Vkr-u'**

- Demonstrate proper lifting technique.
- Have an object and ask people to lift it. Invite observations and critique from the rest of the crew.
- Ask the crew a few questions to promote discussion:
  - Have you ever pulled a back muscle lifting something?
  - Why is it important to ask for assistance?



# TOOL BOX SAFETY TALKS

## EMPLOYEE RESPONSIBILITIES

**Although OSHA requires employers to provide safe worksites, it's your responsibility follow the rules.**

- É Vcng" { qwt "lqd"ugt kqwn { "cpf "dg"r tqhgukqpcr0E qy qtngtu"cpf "enkgpu"gzr gev'k'qp"y jk "r tqlgew0
- É F q"pqv'y qtm'qp" c"tqqh'h" { qw'ctg'w'pf gt"y j g'kphw'gpeg"qh'creqj qn'cpf "f twi u0Qpg'y tqpi "uwr "ecp tguwn'kp"lplwt { "q" { qw'qt" { qwt"eq/y qtngtu0

**Maintaining good job site housekeeping is very important. You and your coworkers can help keep the project neat and orderly.**

- É Rlen'w' "tcuj "cpf "f gdtku'y cv'ku'n { kpi "ctqwpf "uq"kv'f qgup) 'dgeo g'c'ktdqtpg"qt" dgeo g'c"vkr r kpi j c| ctf 0
- É Kf { qw'ur kn'cp { y j kpi . 'ej gen'y g'O cvgtkn'Uchgv' "F cv"Uj gg'v"O UF U+hq"cp { "r gtupcn'r tqvexg gswkr o gpv"RRG+tgs wktgo gpv'qt"engcp/wr "o gjv qf u0Vj gp"engcp'k'wr "ko o gf kcvgn' "uq"kv'f qgup) v dgeo g'c"vkr r kpi "j c| ctf 0

**It is your responsibility to wear personal protective equipment (PPE) that is appropriate for job site hazards.**

- É Y gct" { qwt"j ctf"j cv"uchgv' "i nuugu."i m'xgu."j gctkpi "r tqvexqp."m'pi "urgxgf "uj k'w'cpf "y qtm dqqu0Vj g { "ecp"r t'xgpv" { qw'htqo "dgkpi "ugt kqwn { "qt" h'vcm { "lplwtgf 0

**It is your responsibility to report accidents or near misses to your supervisor immediately.**

- É Vj g'i qcn'qh'tgr qtkpi "ceekf gpw'qt"pgct"o kuugu'ku'pqv'v'q"r vpkuj "qt"uggn'dmco g."dw'vq"vcng eqttge'v'xg"cev'kpu'y cv'y kn'gpw'g"y j g'ceekf gpw'y kn'pqv'tgqewt0
- É Gxgp'kh'y g'lplwt { "qt"lpekf gpv'uggo u'uo cm'tgr qtv'k0Uqo g'ko gu'lplwt'ku'ecp" dgeo g'y qtug"qxgt vko g0Hqt"gzco r rg."uo cm'ewu'cpf "regetcv'kpu'ecp" dgeo g'kphgevgf "kh'pqv'r tqr gtn { "tgcvgf 0

**Report all unsafe acts and conditions.**

- É Kf { qw'y kpguu'cp"wpuchg"cev'd { " { qwt"eq/y qtngtu."rgv" { qwt"uwr gtxkuqt"npqy 0 { qw'o c { "dg r t'xgxp'kpi "uqo gdqf { "htqo "dgkpi "lplwtgf 0
- É Kf { qw'ugg"cp"wpuchg"eqpf k'kqp."rkng"dtqngp"rcf f gt."vcng"cev'kpu'vq"tgo q'xg'kv'htqo "ugt'xleg"cpf "vgm { qwt"uwr gtxkuqt"uq"kv'ecp"dg'tgr r'ceg'f "y kj "c"rcf f gt"kp"i q'qf "eqpf k'kqp0

aa"

### Vtcklpi 'Vlu'

- É J cxg'xctkqu'v { r gu'qh'RRG'cxckrdng'hqt'tgxkgy 0F kuwuu'ukwcv'kpu'lp'y j lej "y j g'RRG'ku tgs wktgf 0
- É F kuwuu'y j g'hev'y cv'y j gp"cp"lplwt { "qewtu"qp"y j g'lqdu."y j g'o r m { gg'ku'pqv'y j g'qpn { "qpg chgevgf "tgo kpf "y j go "y j cv'y gk'hco k'kgu'ctg"cnuq"chgevgf "kh'y j g'o ku'y qtn'icpf "y j g'r tqlgew hqtgo cp"o c { "pqv'dg"cdng"vq"tgr r'ceg'f "i q'qf "go r m { ggu0
- É Cum'y j g'hmqy kpi "s wgu'kpu<  
Y j cv'ctg"uqo g'qh'y j g'wpuchg"eqpf k'kpu" { qw'j cxg'uggp'kp"y j g'tgegpv'r cuwA"  
Y j { "ku'k'ko r q'vcpv'vq"tgr q'v'gxgp"o k'pqt"lplwt'ku'vq" { qwt"uwr gtxkuqtA"



# TOOL BOX SAFETY TALKS

## OFF-THE-JOB SAFETY

Many of the safety rules that you use at work should be observed at home also.

Make sure to use your defensive driving skills in your personal vehicle, not just when you are at work.

- É Qxgt'62.222'r gqr rg'ctg'hkngf "gxgt{" "gct"qp"vj g'pcvkqp"u"j ki j y c{" u0
- É Cny c{"u'y gct{"qwt'ugcv'dgn"gxgp"qp"uj qtv'tkr u0
- É Fqp'N'ckri cvg0
- É Cmny {"qwtugth'r ngpv{"qh'vko g"vq'i gv'vq{"qwt'f gukpcvkqp'uq{"qwf'qp'N'j cxg"vq"ur ggf 0
- É P gxgt'f tkxg'lpvqz'kcvgf 0'Wug'c'f guki pcvgf 'f tkxgt'qt'ecm'c'ecd0

When using ladders at home you should follow the same safety rules that you use on the job.

- É O cng'wmg'vj g'rcf f gt'ku'vkgf "qhl'cpf "gzvgpf u'vj tgg'hggv'cdqxs'vj g'lwthceg{"qwo'ctg'erko d'kpi "vq0
- É Tgo go dgt"vq'ugv'vj g'dcug'qh'vj g'rcf f gt'qpg'hqqv'cy c{"htqo "vj g'y cmh'qt'gxgt{"hqw'hggv'kp j gki j v0
- É Cny c{"u'ugv'vj g'uchgv{"hggv'qp'hko "i tqwpf 0
- É Hqt'ugr'rcf f gtu."o cng'wmg'vj cv'vj g'rgi u'ctg'hwm{"gzvgpf gf "cpf "vj cv'vj g'dtcegu'ctg'hqengf 'lpvq r nceg."cpf 'tgo go dgt'pqv'vq'uvcpf "qp"vj g'vqr "ugr 0
- É Kpur gev{"qwt'rcf f gtu'hqt'etcemu'qt"qvj gt'f ghgew0
- É Cny c{"u'dg'gzv'c'ectghw'ctqwpf 'r qy gt'hkpgu."gur gekm{"y kj "o gvcn'rcf f gtu0

Personal Protective Equipment is important whenever you're doing home projects.

- É Y gct'uchgv{"i rcuugu'y j gp'wulpi {"qwt'r qy gt"vqqm0
- É I nqngu."emvj kpi ."cpf "uj qgu'uj qwf'dg'uwkgf "vq{"qwt'lqd0
- É K{"qwt'ctg'y qtnkpi "kp"cp'ctgc'y j gtg'vj gtg'u'tgg/vko o kpi "qt"cp{"qvj gt"qxgtj gcf"y qtni qkpi "qp. vj gp'c"j ctf"j cv'ku'err tqr tkvg0
- É Ku'c'i qqf'kf gc"vq'y gct'uchgv{"i rcuugu'gxgp'y j gp'eww'kpi "vj g'i tcuu."vq'r tqgev{"qwt'g{"gu'htqo h{"kpi 'tqemu0

Vj gtg'ctg'cm quv'cu'o cp{"j c| ctf u'cv'j qo g'cu'vj gtg'ctg'cv'y qtn0Ku'ko r qtcvp'vq'tgeqi pk g'vj go "uq{"qwt'ecp" r tqgev{"qwtugth'cpf {"qwt'ho k{"00 cng'wmg'{"qwt'gcf "vj g'lpwt'wv'kpu'cpf "vj g'o cpw'cewt'gt'u" tgeqo o gpf cv'kpu'dgh'qtg'dgi kppkpi "cp{"pgy "r tqlgew0

aa"

### Vtckkpi 'Vlu'

- É Cunly j cv'nkpf u'qh'gs wkr o gpv'r gqr rg'j cxg'lp'vj gkt'j qo gu."cpf "y j cv'wqtu'qh'r tgecw'kpu'vj g{"v{"r kcm{"wug0
- É Gpeqwtci g'f kiewu'kqp'cdqw'vj g'nkpf u'qh'uj qtvewu'r gqr rg'vcng'cv'j qo g."vj cv'y qwf'pqv'dg vqngtcvgf "qp"vj g'lqd0
- É Cunly j cv'wqtu'qh'\$ctqwpf "vj g'j qwug'\$ceekf gpw'r gqr rg'j cxg0



## TOOL BOX SAFETY TALKS

# SHEET METAL SAFETY

**Sheet metal, mainly used in roofing for roof perimeters, roofing gutters, downspouts, and standing steam roofing, exposes you to several unique hazards.**

**You must always be aware of the sharp edges on sheet metal.**

- É Wug"gz t go g"ecwkw p"cpf "cny c{ u'y gct"i nqngu'y j gp"j cpf rkp i "uj ggv'o gvcn0  
É Mgr "uj ctr "gf i gu"cpf "eqtpgtu"cy c{ "htqo "y cmkp i "ctgcu0  
É J cpf "ew"gf i gu"ctg"gur gekm{ "uj ctr "/" hkp i "qt"i t kpf kpi "dwtu."qt"j go o kpi "y g"gf i g'y kn'nguup  
y ku'v{ r g"qh"j c| ctf 0

**Some sheet metal is lead-coated, which presents another concern.**

- É Ngcf "ku" c' r qkuqp "y cv. "chngt" gzeguukxg "gZR quwtg. "ecp" dg" uxtgf "kp" { qwt "dqf { 0  
É Ku" gZR quwtg "vq "ngcf "ku" cp "kuuwg" kp" { qwt "y qtnr nreg. "o cng" uwtg" { qw" cng" r tqr gt "r tgecwkkpu" cpf  
y cv" { qw" dgego g" hco kktc "y kj " { qwt "eqo r cp { u" ngcf "r rnkkgu" cpf "r tqegf wtu0  
É Y j gpgxgt "j" cpf nki "ngcf "r tqf wewu. "cny c { u" y gct "i nqngu" cpf "y cuj "y qtqwi j n "dghqtg" gcwpi .  
f tlpnkpi "qt" uo qnkpi "dgecwug" ku" gcu { "vq" ceekf gpwcm { kpi guv" ngcf "y cv" o c { "dg" qp" { qwt "j" cpf u0  
É F qp) "cng" dtgemu" qt "gcw" kp "ctgcu" y j gtg" ngcf "ku" r tguqp0

**When soldering, additional safety precautions should be followed.**

- É Rgtuqpcrlr tqvgvkg"gs wkr o gpv\*RRG+.lpenwf kpi "g{ g"r tqvgvkkp."i nqngu."cpf "mupi "unggxg"uj kt u  
uj qwr "dg"y qtp0
- É J cxg"cl"hg"gzvki wkuj gt"pgctd{0
- É Cny c{ u"t{ "vq"y qtnlwr y kpf "qt"wguc"hcp"vq"l kuulr cvg"rgcf "hwo gu"vj cv"y knldg"i gpgtcvgf "htqo  
j gcvkpi "vj g"o cvgtkn"uq"vj cv"y qwf qp"l kpi cng"vj go 0

**When using power machine tools, machine guarding must be used.**

- É O cng"uwtg"o cej kpg"i wctfu"ctg"kp"y qtnkpi "qtf gt"y j gpgxgt"wkpi "r qy gt"o cej kpg"vqqu"uwej "cu0  
rtgu"dtcngu"qt"uj gctu0

Uj gg'v'o gvcn'cpf 'y' g'o cej kpgu'wugf 'vq'hqto 'k'r tgu'p'v'w'p'k' w'g'j c| ctf u'p'q'v'p'qto cmf 'uggp'k'q'y gt 't'q'q'h'k'p' " cr r'lec'v'k'p'u'V'cng'gz'tc'k'o g'c'p'f'ect'g'y j gp'y qtn'k'p' 'y' k'j 'uj gg'v'o gvcn'cpf 'uj gg'v'o gvcn'hqto k'p' 'gs w'k' o gp'v'uq' " { qw'f'qp'v'i g'v'd'gp'v'q'w'q'h'uj cr g#

[illegible]

## Vtckpki 'Vku'

- É J cɣg'uqo g'r kgegu'qh'uj ggv'o gvcn'cxclndrg'v'f go qpwtcv'j qy 'uj ctr 'k'ku.'gur gekm' 'y j gp'kv  
j cu'j cpf 'ew'gf i gu0
- É Y kj 'c'y j kg'tci . 'y kr g'c'r kgeg'qh'rgcf/eqcv'f 'uj ggv'o gvcn'v'/'uj qy 'j qy 'gcu'k' 'rgcf 'twdu'qh'h'qh  
y j g'uj ggv'o gvcn'cpf 'qp'v'j cpf u'qt 'erqy gu0
- É Cum'ij g'hqmqy lpi 's wgv'kpu<
- Y j { 'ku'k'ko r qtcvp'v'j } cɣg'o cej kpg'i wctf uA'
- J qy 'ecp'rgcf 'i gv'kpv' { qwt'dqf { A'



# TOOL BOX SAFETY TALKS

## DEFENSIVE DRIVING

**Defensive driving is important for the protection of both fellow employees and the general public.**

É K'ku'dguv'vq'vcng'c'f ghgpukxg'cr r tqcej 'y j gp'f tkxkpi ODg'qpg'uvgr 'cj gcf 'qh'vj g'qvj gt'f tkxgtu'qp vj g'tqcf 0

**Always be alert. This is especially important on the way back to the yard or home after a long day on the job.**

É Mggr 'cy c' 'htqo 'vj qug'f tkxgtu'y j q'ctg'f tkxkpi 'wpuchgn( 0  
É F q'pqv'vchi cvg'qt'ur ggf 0

**Part of defensive driving is taking driving conditions into consideration.**

É Utk r gt{ 'qt'le{ 'eqpf kkpup'y knitgs vkt g'iqpi gt'uvr r kpi 'f kucpegu.'uq'kpetgcug'vj g'f kucpeg dgvy ggp' { qwt'xgj keng'cpf 'vj g'xgj keng'kp'htqp'v'qh' { qw0  
É Dcf 'y gcvj gt'eqpf kkpup'etgcvg'j cxqe'y j gp'qv kpi 'vtckgtu'qt'ngwrgu0Ci ckp.'kpetgcugf hqmvy kpi 'f kucpegu'cpf 'uqy gt'ur ggf u'ctg'ng{ 0  
É F c{ vko g'f tkxkpi 'kp'vj g'wprki j v'ecp'cnuq'etgcvg'r tqdrgo u'hqt'uqo g'f tkxgtu0O cng'uwtg' { qwt y kpf uj kgrf 'ku'engcp.'cpf 'y gct'uwpi rcuugu0

**Your personal vehicle and your company vehicle probably react differently.**

É Ej cpegu'ctg.' { qw'ctg'ectt { kpi 'j gcxkgt'iqcf u'y cp' { qw'y qwf 'kp' { qwt'r gtupcnlect0Xgj kengu'y kj j gcxkgt'iqcf u'tgs vkt g'iqpi gt'uvr r kpi 'f kucpegu0  
É Kpetgcug' { qwt'uvr r kpi 'f kucpeg'gxgp'o qt g'kh' { qw'ctg'vtckkpi 'c'ngwrg.'hwni'qt'go r v{ 0  
É Rlem'wr 'twem'ecp'dg'rkj j v'gpf gf.'gur gekm' { 'y j gp'vj g{ } g'go r v{ 0Dg'r tgr ctgf 'vq'eqo r gpucvg hqt'tgct/y j ggn\$mem'wr u\$'cpf 'unf u.'gur gekm' { 'y j gp'tqcf 'eqpf kkpup'ctg'nguu'vj cp'kf gcn'uwej cu'tckp.'upqy.'cpf 'leg0

**Defensive driving hinges on the driver's mental state.**

É O cng'uwtg' { qw'ctg'y gmtguvgf 'cpf 'kp'i qqf 'o gpvnc'cpf 'r j { ukecnj gcnj 0  
É F q'pqv'f tkxg'kh' { qw'ctg'wpf gt'vj g'kphwgepg'qh'creqj qn'qt'f twi u0Rt guetkr vkp'qt'qxgt/vj g'eqwpvgf f twi u'ecp'cnuq'o cng' { qw'f tqy u{.'uq'dg'ectghw0  
É Cxqkf 'ci i tguukxg'f tkxgtu0Mggr' { qwt'vgo r gt'kp'ej gem'gxgp'y j gp' { qw'hgg' { qw'ctg'tki j v0  
É Dg'r tgr ctgf 'vq' { kgrf 'vj g'tki j v'qh'y c{ 'gxgp'kh'vj g'qvj gt'f tkxgt'ku'y tqpi 0

aa"

### Vtckkpi 'Vlu'

É Gpeqwtci g'go r m{ ggu'vq'f kuewu'uqo g'ceekf gpw'vj g{ 'j cxg'dggp'kpxqngf 'y kj.'kpenw kpi 'vj qug cv'y qtn0  
É F kuewu'j qy 'vj qug'ceekf gpw'eqwf 'j cxg'dggp'cxqkf gf 0  
É Cumlvj g'etgy 'vj g'hqmvy kpi 's wguukp<  
Y j cv'ctg'uqo g'uki pcn'qh'ci i tguukxg'f tkxkpi 'gzj kdkgf 'kp'qvj gt'f tkxgtuA'  
Y j cv'ctg'uqo g'qvj gt'eqpf kkpup'vj cv'y cttcpv'vj g'pggf 'hqt'uqy gt'f tkxkpi A'



# TOOL BOX SAFETY TALKS

## SEAT BELTS

*J c xg'f qw'gxgt 'wugf' t p { 'q h'ij g' h nqy lpi ' t i w o g p u A' "*

**I wear my seat belt on long trips but it's too much of a hassle on short drives.**

É O quv'o qvqt'xgi kerg'etcuj gu'qeew'cv'ur ggf u'qh'47"vq'62"o 0 0 0

É Vj g'o clqtkt' 'qh'ceekf gpw'vcng'r nceg'y kj kp'47"o kgu'qh'c'f t kxgt'u'j qo g'qt'qh'heg0

**I heard it's better to be thrown from your vehicle in a serious crash.**

É Cukf g'htqo 'vj g'uj ggt'wpxce { 'qh'f gekf lpi 'vj cv'k'y qwf 'dg'dgwgt'vq'dg'ecvr wngf 'vj tqwi j 'vj g y kpf uj kgrf 'qh'c'xgi kerg'cv'82"o 0 0 0'f t kxgt'u'y j q'\$gzk\$'vj gk'xgi kergu'f wtkpi 'c'etcuj 'ctg'hqwt vko gu'cu'rkngn' 'vq'f kg.'wuwcm' 'htqo 'j c xkpi 'vj g'xgi kerg'tqm'qxgt'qp'vj go 0

**It's uncomfortable.**

É [ qw'mfi gv'wugf 'vq'kx.'cpf 'y qp)'gxgp'pq'leg'chgt'c'y j krg0

É Dtqngp'dqpgu.'r ctcn'uku.'tcev'kqp.'cpf 'uwti gt { 'ctg'cm'o wej 'o qtg'wpeqo hqtcdng0

**A seat belt is a quick, easy, and inexpensive way to preserve your life.**

É 36.222'r gqr ng'f kg'gcej '{ gct'dgecwug'vj g { 'y gtg'kp'o qvqt'xgi kerg'etcuj gu.'cpf 'f gekf gf 'pqv'vq y gct'vj gk'ugcv'dgmu0

Rwwkpi "qp" { qwt'ugcv'dgn'ku'r tqdcnd' 'vj g'gculguv'cpf 'hgcuv'gxr gpukxg'hqto 'qh'r tqvge'kqp'cxckrdng'vq' "{ qw0 [ qw'j c xg'r tqdcnd' 'j gctf 'uvtkgu'cdqwr' gqr ng'y j q'f kgf 'kp'vj gk'ectu'dgecwug'vj g { 'y gtg'y gctkpi 'vj gk' "ugcv'dgmu'cpf 'o c { dg' { qw'j c xg'dggp'wukpi 'vj ku'cu'cp'gzewug'vq'pqv'dwemg'wr =dw'vj gug'ecugu'c3uq'tctg'vj cv' vj g { 'ctg'pqv'gxgp'y qt vj 'o gpv'kqkpi 0Vj qwu'cpf u'o qtg'f kg'dgecwug'vj g { 'ctg'pqv'y gctkpi 'vj go 0Ugcv'dgmu'f q" ucxg'rkxgu'f

aa"

**Vtcklpi 'Vkr-u'**

É Cum'ij g'hqmy lpi 's wguv'kpu<

J qy 'o cp { 'qh' { qw'y gct'ugcv'dgmu'A'Y j { 'qt'y j { 'pqv'A'

J cu'cp { qpg'gxgt'dggp'kp'c'ukwcv'kqp'y j gtg'c'ugcv'dgmu'j cu'j grr gf 'vq'r t g xgpv'cp'kplwt { . " qt'ucxg'c'hkg'A'

Y j q'j cu'dggp'vengv'f hqt'pqv'y gctkpi 'c'ugcv'dgmu'A'



# TOOL BOX SAFETY TALKS

## TRUCK LOADING

All roofing companies use trucks to haul roofing materials to the job sites. The trucks come in a variety of sizes and can be loaded by hand or by using mechanical assistance, such as a forklift.

The Occupational Safety and Health Administration (OSHA) requires forklift operators to be trained.

- É Kp'cf f kkp'v'q'tclp'p' . 'QU C'tgs vktgu'v'j cv'v'j g'hqtmk'h'dg'gs vkr r gf 'y kj 'qxtg'j gcf 'r tqvge'vqp cpf 'dcem'wr 'cmto u.'cpf 'v'j cv'ugcv'dgmu'dg'wugf 'h'v'j g'hqtmk'h'ku'uq'gs vkr r gf 0
- É Y j gp'v'cxgn'p' 'y kj 'c'hqcf . 'nggr 'k'cu'emug'v'q'v'j g'i tqwpf 'cu'r quukdr'g'K'c'hqcf 'ku'v'q'j' k'j . 'kv ecp'ecwug'v'j g'hqtmk'h'v'q'v'kr 0
- É Mggr 'v'j g'ur ggf 'qh'v'j g'hqtmk'h'v'q'c'o k'p'o wo 'y j gp'k'ku'ectt' { l'p' 'c'hqcf 0
- É O cng'uwg'v'j g'hqtmk'h'ku't'c'v'g'f 'hqt'v'j g'hqcf u'k'y kn'h'k'0Qxgtm'qcf l'p' 'y kn'ecwug'v'j g'hqtmk'h'v'q'v'kr 0
- É P gxtg't'h'v'q't'cm'qy 'r gqr ng'v'q'v'cxgn'q'p'v'j g'hqtmu'0

When loading the truck by hand, be sure to use proper lifting techniques.

- É Utg'v'j 'dgh'q't'g'h'k'p' 'v'q'k'o dgt'wr '{ qwt'o wu'ngu'0
- É I g'v'emug'v'q'v'j g'hqcf . 'h'v'y kj '{ qwt'h'g' u.'nggr 'v'j g'p'cw'ct'cl'ew'xg'l'p' '{ qwt'h'qy gt 'dcem'cpf 'f'q'p'qv v'y kn' '{ qwt'dcem'0Cun'h'q't'j' gr 'y j gp'v'j g'hqcf 'ku'j' g'cx '{ 'qt'dwm' { 0
- É Y j gp'hqcf u'p'ggf 'v'q'dg'ectt'g'f 'qxtg'h'q'p' 'f'k'w'p'egu.'wug'o ge'j c'p'k'c'rl'f g'v'legu'u'we'j 'cu'ect'v'u'qt
- É j cpf 'v'twem'0
- É K'f' tci i l'p' 'u'q'o g'y l'p' 'q'h'h'q'h'c'v'twem't'go go dgt'y j gt'g'v'j g'gf i g'ku'cpf 'dtceg' '{ qwt'ug'h'v'q'v'cng'v'j g'hqcf 0

Before leaving the yard, make sure the drivers and those responsible for loading have met Department of Transportation (DOT) requirements.

- É Nqcf u'o wuv'dg'ugew'gf 'v'q'r t'g'x'gp'v'uj k'h'p' 'qt'f'k'ur m'ego gp'v'0
- É Ch'gt'47'o k'gu'q'h'v'cxgn'v'j g'hqcf 'o wuv'dg'ej g'eng'f 'v'q'o cng'uwg'v'k'ku'v'k'm'ugew'g'0
- É Rtqr cpg'dq'w'gu'o wuv'dg'ugew'gf 'wr t'k'j v'y kj 'v'j g'q'w'h'qy 'x'c'k'g'r'w'i i g'f 0
- É R'rect'f u'ct'g'p'ggf g'f 'hqt'o qt'g'v'j cp'3222'r qwpf u'q'h'c'j' c'j' c't'f'q'w'u'o c'v'g't'k'n'cpf 'v'j g'f't'k'x'g't'o wuv j'cx'g'c'eqo o g'te'k'rl'f't'k'x'g't'h'eg'pug'\*E'F'N'0
- É T'go go dgt'v'q'h'k'v'w'v'j g'f'c'k'v' 'x'g'j'k'eng'k'p'ur g'ev'k'p't'gr q't'v'0
- É O cng'uwg' '{ q'w'j'cx'g' '{ qwt'uj k'r l'p' 'r'c'r'gtu'h'k'ng'f 'q'w'eq'tt'g'ew' { 0

aa

### Vtclp'p' 'Vkr-u'

- É K'v'j gt'g'ku'c'hqcf gf 'v'twem'c'v'j g'l'qdu'kg.'wug'k'v'q'g'z'r'nc'p'j' qy 'k'y cu'hqcf gf 'cpf'j' qy 'ku'eqp'v'gp'v' y gt'g'ugew'gf 0
- É Uj qy 'go r m' { ggu'y j gt'g'r'rect'f u'p'ggf 'v'q'dg'r'ceg'f 'qp'v'j g'v'twem'0
- É C'um'v'j g'h'q'm'qy l'p' 's'v'gu'v'k'p'u'<
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# TOOL BOX SAFETY TALKS

## VEHICLE MAINTENANCE

**It pays to be proactive, rather than reactive, with vehicle maintenance.**

- Our equipment will last longer.
- Our company vehicles will be more dependable.
- Simple maintenance can be done on the job site.

**Be familiar with the recommended maintenance program from the operator's manual so that you can alert the mechanic when it's time to do a thorough inspection.**

**There are some simple steps that you can take before starting the vehicle each day to keep it in great condition.**

- Remove trash or other objects, such as rags, tools, and coffee cups from the truck.
- Look at the condition of the seat belts. If they are worn or frayed, report it to your supervisor immediately.
- Look under the hood and check oil and other fluid levels. Replace the fluids as needed.
- If your company or the Department of Transportation requires it, make sure that you have a fire extinguisher on board.
- Check to make sure you have flares or reflective devices.
- Examine the tires for tread wear and balding areas. Report any problems to your supervisor.
- Make sure the tires are properly inflated.

**Check the instrument panel and all warning lights after starting the vehicle.**

- Make sure the gauges are prodding normal readings.
- Do a quick check of the defroster, heater, horn, lights, and windshield wipers.
- Check the steering and brake operations.

Our vehicles may be our single most important piece of equipment; without them we cannot do our jobs. Regular preventative maintenance will help ensure that they will keep running well for a long time, and will also ensure that they are safe enough for us to drive.

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### **Training Tips**

- Demonstrate a daily vehicle inspection.
- Show employees how to perform any maintenance you want them to be able to perform.
- Ask the following questions:
  - What are some areas to check during the daily vehicle maintenance check?
  - Why does it make sense to check the vehicles over instead of just letting the mechanic examine it when there's a problem?



# TOOL BOX SAFETY TALKS

## WATER DAMAGE PREVENTION

**Water damage is one of the biggest fears of roofing contractors. It's often a race against Mother Nature to get a roof in place before rain or snow comes. Making sure a partially done roof is well covered and that drains are left unplugged are some of the biggest concerns at the end of the day. Even one mistake can result in a collapsed or damaged roof system, and waterlogged offices or homes.**

**Always keep an eye on the weather, especially during tear-offs.**

- Check the weather forecast first thing in the morning and frequently throughout the day.
- Listen to a weather radio or regularly check the telephone weather forecast.

**Be prepared for bad weather.**

- Keep plastic tarps on hand.
- It's best to cover sensitive equipment in the building before the job even starts but if you don't then be ready to go in and cover it if it starts raining when there's not complete protection on the roof.
- Note and document previous water damage in the building so your company is not held responsible for existing damage.

**Never ever leave the roof open.**

- Even if the forecast is clear, do not leave the roof open.
- All areas of the roof must be water-tight at the end of the day.
- Roof tie-ins should be inspected before you and your coworkers leave the jobsite.

**The building owner or plant manager should be given a 24-hour emergency number where he or she can reach a field supervisor.**

- Your field supervisor will have access to plastic tarps, squeegees, water vacuums, and any other equipment, which may be needed in case of a water damage emergency.

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### **Training Tips**

- Explain to your crew that you listen to professional weather forecasts instead of television forecasts for up-to-the-minute accuracy.
- Share details of past water damage claims and how they could have been prevented.
- Ask the following questions:
  - Why is it so important to make sure the drains are unplugged?
  - Why is it a good idea to cover equipment in the building?
  - Why is it important to document existing water damage in the building?
  - Can you leave the roof open if you're 100% sure that the weather will be clear all night?



# TOOL BOX SAFETY TALKS

## WEATHER – PERSONAL INJURY

**In some northern climates you may be working in dangerously cold temperatures.**

- Dress warmly by layering clothing.
- Protect your head, hands and feet.
- Be alert for signs of frostnip - tingling, burning, numbness - that could lead to frostbite.
- Be aware of frozen surfaces where it might be slippery, especially at the roof edge and on steep-slope roofs.

**During the summer months, and year-round in some southern climates, temperatures can hover in the 90's and the 100's.**

- Light colored clothing and a hat with a brim will help to protect you from harmful UV rays, and will actually keep you cooler than if you didn't wear a hat or shirt.
- Take frequent breaks and drink lots of water.
- If you get cramps or feel exhausted, seek shade or air-conditioning.
- If you note signs of heat stroke - dry, red skin and strange behavior - in any of your co-workers, get them cooled down immediately and call an ambulance.
- Avoid caffeine and alcohol the night before a hot day.

**Summer brings not only high temperatures, but also thunderstorms.**

- Keep tabs on the weather forecast and be prepared to quickly secure the job site and evacuate; the roof.
- High winds, rain, and hail will make traversing the roof and climbing the ladder very dangerous.
- Lightning strikes are often fatal.

One of the benefits of roofing work is that you get to work outside, but it can also be one of the drawbacks. Temperatures that are extremely high or low can have major effects on your body's temperature regulation system, and adverse conditions can make the work site potentially dangerous. Enjoy the fact that you work outdoors, and take precautions so that you can even enjoy the days that are particularly hot or cold.

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### **Training Tips**

- Explain the company policy for dealing with hot days, or the policy about taking extra breaks, etc.
- Share any company history with weather problems.
- Ask the following questions:
  - Under what circumstances should the roof be evacuated?
  - What should you do if a coworker shows signs of heat stroke?



## TOOL BOX SAFETY TALKS

**PUBLIC PROTECTION**

**As important as it is to safeguard your coworkers from injury, it is equally important to protect the public from the activities we are performing.**

**Separating the public from the hazards as much as possible reduces the chances of injury.**

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**Working at schools poses even more problems because there are curious children in the area. Extra precautionary steps should be taken when on school property. If a child is hurt, negative media and potential lawsuits will probably follow.**

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**When working on the roof, remember that parking lots are usually below.**

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*Signature of Presenter*



# **ARCA EDUCATIONAL MATERIALS**

## **VIDEO TRAINING MODULES**

1. **OSHA Straight Talk About Fall Protection**
2. **APA Roof Decks**
3. **Administrators & Trainers Program**
4. **Administrators & Trainers Program - Spanish**
5. **Application of Asphalt Shingles**
6. **Application of Hot Built-Up & Modified Bitumen Roof Membranes: Flashings**
7. **Application of Hot Built-Up Roof Membranes: Field & Surfacing**
8. **Application of Modified Bitumen Roof Membranes: Field & Surfacing**
9. **Application of Single-Ply Roof Membranes: Field and Surfacing**
10. **Application of Single-Ply: Flashings**
11. **Developing A Sales Program: A Guide for Roofing Contractors**
12. **Educational Video Promo**
13. **Fall Protection: It's About Time**
14. **Fall Protection: It's About Time - Spanish**
15. **Financial Management for the Contractors: Planning for Success**
16. **Guide To Safety: Torch On Systems**
17. **Hazard Communication: Your Right To Know**
18. **Hazard Communication: Your Right To Know- Spanish**
19. **Hot Times: Review of Torch Safety Essentials**
20. **How To Roof With Asphalt Shingles**
21. **Introduction to Built-up & Modified Bitumen Roof Membranes**
22. **Introduction To Financial Management For The Roofing Contractors**
23. **Introduction to Safety**
24. **Introduction to Safety - Spanish**
25. **Introduction to Single-Ply Roof Membranes**
26. **Job Setup, Tear-Off & Equipment for Steep-Slope Roofing**
27. **Kettles, Tankers & Bitumen Heating**
28. **Metal Roof Systems**
29. **OSHA & You: Fall Protection**
30. **Overview of Low-Slope Roofing**
31. **Overview of Low-Slope Roofing - Spanish**
32. **Overview of Steep-Slope Roofing**
33. **Overview of Steep-Slope Roofing - Spanish**
34. **Roof Calculations & Measurements**
35. **Roof Calculations & Measurements - Spanish**
36. **Roof Construction Details**
37. **Roof Insulation & Energy Payback**
38. **Roof Insulations, Flat, Tapered, & Crickets**
39. **Roof Membrane Systems**
40. **Roof Problem Analysis: Repair or Re-roof Decision**
41. **Safety Awareness: It's Up To You**
42. **Safety Awareness: It's Up To You -Spanish**
43. **Setting Up A Jobsite Safely**
44. **Steep-Slope Roofing Safety: Don't Let it Slide – Spanish**



## **VIDEO TRAINING MODULES - continued**

- 45. Substance Abuse In The Workplace
- 46. Substance Abuse In The Workplace - Spanish
- 47. Tear-Off, Job Setup, & Equipment for Low-Slope Roofing
- 48. Tear-Off, Job Setup, & Equipment for Low-Slope Roofing - Spanish
- 49. Water Damage: Don't Get Soaked
- 50. Your Ticket To Success
- 51. Worker's Compensation Fraud: It'll Cost You

## **ARCA REFERENCE LIBRARY REFERENCE MATERIALS**

- 1. International Building Code
- 2. Uniform Building Code
- 3. NFPA 5000 Building Code
- 4. NRCA Building Code
- 5. NRCA Air Pollution Control Regulations
- 6. NRCA Low-Slope Roofing Materials Guide
- 7. NRCA Steep-Slope Roofing Materials Guide
- 8. NRCA Field & Laboratory Assessment of Sprayed Polyurethane Foam-Based Roof Systems
- 9. NRCA Best Employment Practices for the Roofing Industry
- 10. NRCA Estimating The Roofing Job
- 11. NRCA Insurance Guide for the Professional Roofing Contractor
- 12. NRCA Manual for Inspection & Maintenance of Built-Up & Modified Bitumen Roof Systems
- 13. NRCA Manual for Low-Slope Roof Systems
- 14. NRCA Practical Guide for Handling Asbestos Containing Roofing Material
- 15. NRCA Quality Control Guidelines for the Application of Built-up Roofing
- 16. NRCA Repair Manual for Low-Slope Membrane Roof Systems
- 17. NRCA Roofing & Waterproofing Manual
- 18. NRCA Roofing & Waterproofing Manual, CD-ROM
- 19. ARCA Safety Manual
- 20. NRCA Safety Manual
- 21. NRCA Toolbox Talks
- 22. NRCA Toolbox Talks -Spanish
- 23. Roof Tile Institute Concrete & Clay Tile Design Criteria, Installation Manual
- 24. WSRC Roofing Details
- 25. WSRC Toolbox Safety Topics
- 26. State License Requirements for every state in the U.S.
- 27. Directories of various organizations

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# OSHA PUBLICATIONS AND AUDIOVISUALS

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## BOOKLETS:

- ◆ *Access to Medical and Exposure Records.* "%53320\*Go r mł { gg'ceegu'vq'go r mł { gt/o cłpłcłpgf "  
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- ◆ *All About OSHA.* #4278"
- ◆ *Chemical Hazard Communication* "%52: 6\*J C\ Ego 'łxcpf ctf +"
- ◆ *Consultation Services for the Employer* "%52690\*QUJ Cł'ltgg'ugtłeg'vq'go r mł { gtu'pggf łpi 'j gr "vq"  
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- ◆ *Employee Workplace Rights.* "%55243"
- ◆ *Employer Rights and Responsibilities Following OSHA Inspection* "%5222"
- ◆ *Ground-Fault Protection on Construction Sites* "%5229"
- ◆ *Hazardous Waste and Emergency Response* "%5336"
- ◆ *Hearing Conservation* "%529"6"
- ◆ *How to Prepare for Workplace Emergencies* "%52: : "
- ◆ *Industrial Hygiene* "%5365"
- ◆ *Lead in Construction* "%5364"
- ◆ *OSHA Inspections* "%42; : "
- ◆ *Permit-Required Confined Spaces* "%Rgto kł'Ur cegu" "%535: "
- ◆ *Personal Protective Equipment* "%5299"
- ◆ *Respiratory Protection* "%529; "
- ◆ *Stairways and Ladders* "%529; "
- ◆ *Rquvgtu* "Attention Drivers" "%5335"
- ◆ *Confined Spaces.* "%5362"
- ◆ *Job Safety & Health Protection* "%4425"
- ◆ *Right to Job Safety and Health* "%533: "
- ◆ *Tgeqtf nggr łpi "Hqto uł"*
- ◆ *Recordkeeping Guideline /or Injuries and Illnesses.* "%U/50"
- ◆ *Log and Summary of Injuries and Illnesses* "%QUJ C'Nqi "422+0%U/40"
- ◆ *Supplementary Record of Injuries and Illnesses* "%QUJ C'Nqi "323+0%U/60"
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- ◆ *Construction Industry Digest* "%44240&407"
- ◆ *Hazard Communication, A Compliance Kit* "%53260&44072"
- ◆ *Łqd"J cł ctf "Cpcnł uł* "%52930&3022"
- ◆ *Job Safety & Health Quarterly* "0&9022"
- ◆ *OSHA Handbook for Small Business* "%J qy "vq'cej łgxg'łp/eqo r rłcpeg'łvcwgu'r łkqt'vq'łpur gevłqp0"  
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- ◆ *OSHA Regulations, Documents and Technical Information on CD-ROM* "Includes Field Operations  
Manual and OSHA Technical Manual." "& : 022"
- ◆ *Training Requirements in OSHA Standards and Training Guidelines* "%4476"&6047"
- ◆ *Title 29 Code of Federal Regulations, Parts 1926.* "%Eqpust wvłqp0"&55022"



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**NRCA'S Series of Toolbox Talks**

**In**

**English**





# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

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✓"" Vj g'ugeqpf "ugev'kqp"qh'yj g'dcem'qh'gcej "Vqqndqz"Vcmiku"e"uki p/kp'uj ggV'ku"lo r qtvcpv'yj cv" { qw'o cng'uwg" gcej "go r mq { gg"kp"cwgp'cpeg'uki pu'kp"qp"yj g'dcem'r qtvpk'qh" { qwt'r j qvqeqr kgf "hqt" "uq'yj cv" { qw'y knj cxg"e" tgeqtf "qh'yj g'tcklpi "uguukp."y j q'cwgp'gf ."y j cv'f cw'k'v'qqnr nceg."cpf " { qwt'pco g'qt"yj g'pco g'qh'yj g" r gtup'yj q'r tguvpvgf "yj g'kphqto cvkqp+O"

"

*We think you'll find these roofing-specific Toolbox Talks to be helpful and complete. If you have any questions about presenting them, please contact NRCA's risk management department at 800/323-9545. Also feel free to call with suggestions for additional Toolbox Talks.*





# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **NRCA** COMMERCIAL INSURANCE

"

## Vcdrg'qhEqpvgpwu'

"

### Equipment Safety

30Á Hqtmkmu"  
40Á Ncf f gt "Uchgv "  
50Á Rqy gt "Dtqqo u"  
60Á Tqqh'Ewwgtu"  
70Á Uechhqr f u"  
80Á Vqqn. 'I cu/Rqy gtgf "cpf "Grgextle "Rqy gt"  
90Á Vqqn. 'J cpf "  
: 0Á Vqqn. 'Rpgwo cvle "cpf 'I wp/Rqy f gt "  
Cewcvgf "  
; 0Á Vtwem/O qwpvgf "Etcpg "Uchgv "  
"

### Fall Protection

320Á Rgtuqpcn'HcmiCttguv'U{ ugo u"  
330Á T gukf gpvcn'HcmiRtqvgevkqp "Qr vkqp"  
340Á Uchgv "O qpkqt "U{ ugo "  
350Á Un{ rli j w'cpf "Tqqh'Qr gplpi u"  
360Á V ctplpi "Nkpg "U{ ugo u"  
"

### Fire Prevention

370Á Grgextlecn "Uchgv "  
380Á Hk g "Gz vpi vkuj gt. 'Ej qqulpi "vj g "Tki j v"  
390Á Hco o cdrq "cpf "Eqo dwukdrq "Nks wkf u"  
3: 0Á Qz { i gp/Cegv' rpgg "Vqtej "Uchgv "  
3; 0Á Rtqr cpg "Uchgv "  
420Á Vqtej /Crr rkgf "U{ ugo u"  
"

### Hazard Communication

430Á c| ctf "Eqo o wplecvkqp"  
440Á O cvgtkcn "Uchgv "F cvc "Uj gg v "O UF U+ "  
"

### Hot Asphalt Safety

450Á Dwtpu'ltqo "J qv'Cur j cn/qt "Eqcn'Vct "Rkej "  
460Á qv'Cur j cn/Rtqvgevkqp "  
470Á qv'Cur j cn "Uchgv "  
480Á qv'Rkr g. "Vj g "  
490Á Mgwrg "Qr gtcvkpu "Ugv wr "cpf "Ucp/Wr "  
4: 0Á Mgwrg "Qr gtcvkpu "Nqcf lpi . "  
Hk g "Rtngxgvkqp "cpf "Gz vpi vkuj lpi "  
4; 0Á Nwi i gtu "cpf "O qr "Ectwu "  
"

### Housekeeping

520Á qwugngr lpi "  
530Á Tqqh'Vtcuj "Tgo qxcn "  
"

### Personal Protective Equipment

540Á G{ g "Rtqvgevkqp "  
550Á Mxgu. 'Enqv lpi "cpf "Uj qgu "  
560Á ctf "J cvu "  
570Á gctkpi "Rtqvgevkqp "  
580Á Rgtuqpcn "Rtqvgevkxg "Gs wkr o gpv "  
"

### Personal Safety

590Á Dceml'kplwt { "Rtngxgvkqp "  
5: 0Á Go r m{ gg "T gur qpukdkrkkgu "  
5; 0Á gc v "Utgul "  
620Á qtugr m { "  
630Á Qhh/vj g/Lqd "Uchgv "  
640Á Uj gg v "O gvcn "Uchgv "  
650Á Uqrxgp v "Wug "  
"

### " Vehicle Safety

660Á F ghgpukxg "F tkklpi "  
670Á Ugc v "Dgmu "  
680Á Vtwem "Nqcf lpi "  
690Á Xgj keng "O clpvpcpeg "  
"

### Weather

6: 0Á Y cvgt "F co ci g "Rtngxgvkqp "  
6; 0Á Y gc vj gt "Rgtuqpcn "kplwt { "  
"

### Other

720Á Ceekf gpv "Kpxgunki cvkqp "  
730Á qy "vq "J cpf rg "cp "QU C "lpur gev kqp "  
740Á Rwdrke "Rtqvgevkqp "





# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

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## Hqt mtkhu'

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☞ **Jobsite forklifts are usually telescoping beam and overhead carriage types.**

É Vj gug'hqtmtkhu'ctg'o cf g'hqt'tqwi j 'vgttclp0'

É Vj g'j ki j /rkh'ecr cekf 'ecp'o cng'vj g'gs wkr o gpv'wpuwdrng. gur gekm{ 'qp'wpgxgp'i tqwpf 0'

É Qpn{ 'tclpgf 'cpf 'cwj qtk gf 'y qtngtu'o c{ 'qr gtcvg'hqtmtkhu0'

"

☞ **Roofing contractors regularly use forklifts in the warehouse and the yard.**

É Tqwi j 'vgttclp'o qf gnu'j cng'uwr gpukqp'u{ ugo u'cpf 'r pgwo cke'vkt gu. 'y j lej 'o cngu'vj go 'cp'gzegmpv'"

" ej qleg'hqt'wukpi 'qwf qqtu'qp'wpgxgp'i tqwpf 0'

É Kpf qqt'o qf gnu'wuwcm{ 'f qp'j cng'uwr gpukqp'cpf 'j cng'vj g{ 'vpgf 'q'j cng'uqrkf 'twddgt'vkt gu0'Vj gug'"

" o qf gnu'uj qwf p'p'dg'wugf 'qp'tqwi j 'vgttclp'dgecwug'kx'j ctf 'qp'vj g'gs wkr o gpv'cpf 'vj g{ 'ecp'qxgtwtp'"

" gcukf 0'

"

☞ **All forklifts should be equipped with general safety mechanisms, and there are some simple operating procedures to follow as well.**

É P gxtg'tkf g'qp. 'qt'cmqy 'cp{ qpg'gng'v'q'tkf g'qp. 'vj g'hqtmt'qt'cp{ y j gtg'y j gtg'vj gtg'kup)'c'ugcv'r tqxkf gf 0'

É Dg'cy ctg'qh'qxtg'j gcf 'uwtewtgu'cpf 'grgevtlecni'pku0'

É Kpur gev'f qwt'hqtmtkhu'cpf 'o cng'uwtg'vj g'dcenw'uki pcnu. 'j qtpu. 'cpf 'hki j w'ctg'y qtnkpi 'dghqtg'f qw'"

" qr gtcvg'k0'

É F q'pqv'r meg'cto u'qt'ngi u'dgwy ggp'vj g'o cuv'cpf 'vj g'hqtmtkhu0'

É Cniqr gtcvqtu'o wuv'tgegkxg'tclpki 'cpf 'dg'cwj qtk gf 'dghqtg'qr gtcvki 'c'hqtmtkhu0'

É Y j gp'vj g'hqtmtkhu'ku'pqv'kp'qr gtcvqp. 'vj g'hqtmt'o wuv'dg'my gtgf 'eqo r rvgv'0'

③0Á Vj g'tqmxgt'r tqvgevp'ku'f guki pgf 'q'r tqvgevp'f qw'kp'vj g'gxgp'vj cv'vj g'

hqtmtkhu'two u'qxgt0'F q'pqv'lwo r 'htqo 'vj g'o cej kpg'kh'k'uwtw'v'q'i q'qxgt0'

④0Á Ks'gs wkr r gf. 'vj g'ugcv'dgn'y kn'hggr '" qw'htqo 'hcnkpi '"

qww'kh'vj g'hqtmtkhu'twpu'kpq'uqo gvj kpi 'qt'wtpu'qxgt0'

⑤0Á Vtcxgn'y kj 'mqcf u'cu'my "cu'r quukdrng'dgecwug'vj g"

j ki j gt'vj g'mqcf 'vj g'i tgcvt'vj g'vpgf gpe{ 'qh'vj g'hqtmt'

rkh'v'q'qxgtwtp0'P gxtg'rgcxg'vj g'hqtmtkhu'wpcwpgf gf "

y j gp'vj g'mqcf 'ku'grgxcvgf 0'

⑥0Á Qpn{ 'j cpf rg'uwcdng'qt'uchgn' 'cttcpi gf 'mqcf u0'

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## Hqt mklw'Vt cklpi 'Vkr u'

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É Uj qy "y g'xctkqu'e qo r qpgpu'qh'y g'hqt mklw'uwej "cu."y g'j qtp.'tk j w."cpf "rqcf "ej ctu00 cng'k'c'r qkp' y cv'y gug'kgo u'pggf "q'dg'kpur gevgf "f ckl{ "cmppi "y kj "qy gt'kgo u'tgs wkt gf "d{ "y g'o cpwkcwgt0

É Cun'y g'hqmgy kpi "s wguvqp<

É Y j { 'ku'k'pqv'c'i qqf "kf gc'v'cmgy "r gqr ng'v'tkf g'qp'y g'hqtmuA'

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# TOOLBOX TALKS

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## Ncf fgt 'Uchgv'"

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☞ Before setting up a ladder, inspect it for defects. "

É O cng'lwgt'v'j g'rcvj gu'qp'gz vpuq'rcf fgtu'ctg'ugewgf 'dghgtg'erko dki O'

É P gxtg'wug'c'rcf fgt'y kj 'ur rkv'qt'o kuupi 'twpi uO'

É P gxtg'wug'c'rcf fgt'y kj 'i tgcug'qln'qt'cp{ 'qvj gt'urkr rgt{ 'lwduncpeg'qp'v'j g'twpi u'qt'tckuO'

É F ghge'xg'rcf fgtu'v'j cv'ecppqv'dg'tgr cktgf 'qp'v'j g'ur qv'o wuv'dg'vci i gf 'cpf 'tgo qxgf O'

É O cng'lwgt'v'j g'rcf fgt'ggv'o qxg'htggv' 'cpf 'ctg'urkr /tgukucpvO'

"

☞ The ladder should extend three feet over the top of the building and be secured.

ÉÁ Kí'v'j g'rcf fgt'ku'pqv'cm'gpgwi j 'v'q'gz vpf 'v'j tgg'ggv'qxgt'"  
v'j gp'kv'o wuv'dg'v'kf 'qhh'cpf 'v'j gtg'o wuv'dg'c'ugewgf'i tcd'"  
tckuO'

"

☞ For every four feet of building height, the base of the ladder should be set one foot away from the building.

☞ Set the ladder on firm ground and make sure that it is Secure.

É Eqpvetg'qt'eqpvce'v'ukri'ctg'kf gcn'lwthceguO'

É Cxqlf 'wpucdrg'tqemuO'qqug'ucpf O'o wf. 'cpf 'legO'

É Kí'v'j g'rcf fgt'f qgu'pqv'j cxg'urkr /tgukucpv'ggv'f ki 'c'uo cm'"

" vtgpej 'cpf 'r rceg'v'j g'dcug'qh'v'j g'rcf fgt'kp'v'j g'tgpej 'v'j

" 'nggr 'kv'htqo 'urkr r kpi O'

"

☞ Follow safe work practices for climbing and carrying ladders.

É Mgr 'cv'gcu'v'qpg'j cpf 'qp'v'j g'rcf fgt'cv'cm'v'ko gu'y j gp'erko dki 'wr'qt'f qy pO'

É Hceg'v'j g'rcf fgt'y j gp'erko dki 'kp'gkj gt'f kgevkqpO'

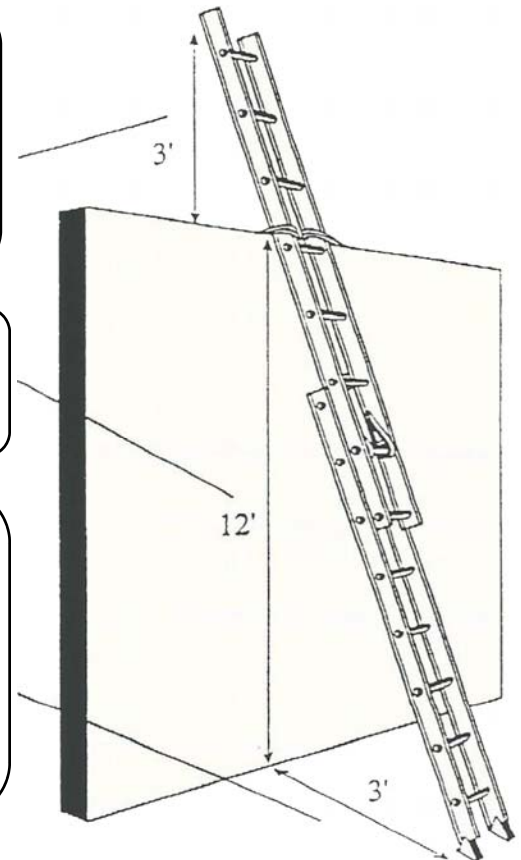
É Mgr 'rcf fgtu'gur gekcm' 'o gcn'qpgu'cy c{ 'htqo 'qxgtj gcf 'r qy gt'htpguO'

É I gv'j gr'y j gp'o qxkpi 'j gcx{ 'rcf fgtuO'

"

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*Nc f f g t 'U c h g v ' V t c h p k p i ' V k r u'*

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É Go r j cuł g'v j g'f cpi gt "qhi'c'o kueng'cu'uko r ng'cu'ceekf gpvcm' j kwpi 'c'r qy gt "hpg'y kj 'c'o gvcl'nf f gt0'  
Gzr nclp'v j cv'grgevtlek' j y knle'cwug'o wuengu'q'eqpvtcev'uq'v j cv'v j g'go r nq j gg'ecppqv'ng'v i q'qh'v j g'ncf f gt= '  
cpf 'cnuq'gzr nclp'v j cv'pq'qpg'ecp'j gr j ko 'qt'j gt "dgecwug'j gr gtu'y knli gv'grgevtqewgf "cu'y gm0V'j ku'ku"  
qlhgp'c'hvcl'ceekf gpv0'

· " Uj qy "c" f co ci gf "ncf f gt "kh" { qwj cxg "qpg "kp "vj g "{ ctf "cpf "g zr nkp "y j { "k'ku'f cpi gt qwu'vq "wug0

· Rqlpv'q'f lht gp'v'f r gu'qh'uqlr'eqpf kkp'u'qp'y g'i tqwpf "cpf "cun'y g'i tqw "h'y g'mecw'kpu'ctg'uch'ht"  
ugv'kpi "w "c'ncf fgt0

· " J c x g " c " n f f g t " e x c k n d n g " c p f " f g o q p u n t c v g " j q y " v q " u g v k " w r O "

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# TOOLBOX TALKS

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## Rqy gt 'Dqgo u'

"

☞ **Power broom operators need to be properly trained.**

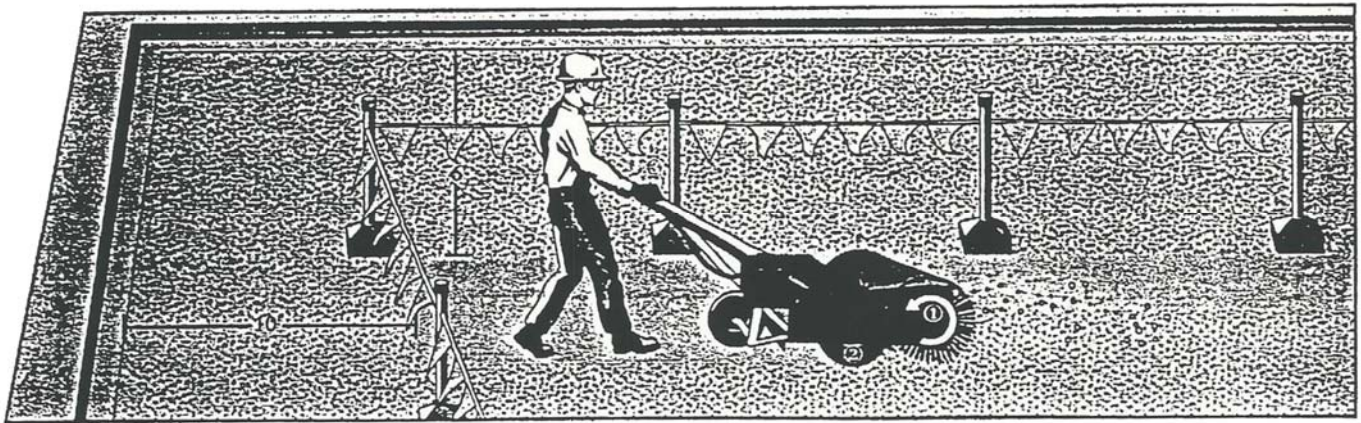
"

30) Á Vj g'dtwuj 'f two 'o qxgu'eqwvgtmemy lug. 'uq'dghqtg'gpi ci kpi 'vj g'dtqgo 'dg'r tgr ctgf 'hqt 'vj g'dcem' y ctf 'vj twuv'qh'vj g'dtwuj 'f two 0"

40) Á P gy gt'dtqgo u'wug'r qy gt'f tkxgp'y j ggnu'v'cuukv'lp'o qxkpi 'vj g'wpk'hqty ctf. 'y j kej 'j grr u'v'q' eqwvgt/cev'vj g'dceny ctf 'o qxgo gpv'qh'vj g'dtwuj 'f two 0J qy gxgt. 'vj g'wpk'ecp'uvkn'dg'r wuj gf "dceny ctf u'd{ 'vj g'f two 'kh'vj g'y j ggnu'ctg'pqv'vqwej kpi 'vj g'i tqwvf 0'

50) Á Cnir qy gt'dtqgo u'uj qwf 'j cxg'c'f gcf o cp'u'uy kej 'vj cv'ewu'qh'vj g'r qy gt'kh'vj g'qr gtcvqt 'rgu'i q'qh' vj g'j cpf ngu0P gxgt 'qxgtkf g'vj ku'uy kej 0'

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☞ **Obviously, there are a number of hazards associated with this machine.**

ÉÁ Vj g'i tgcgvu'j c| ctf 'ku'vj g'tqqh'gf i g0Hcnir tqvgevqp'uj qwf 'cny c{ u'dg'gtgev'f 'cpf 'vj g'dtqgo "qr gtcvqt'o wuv'j cxg'c'i qqf 'kf gc'y j gtg'j g'qt'uj g'ku'lp'tgrevqp'v'vj g'gf i g0'

ÉÁ Rqy gt'dtqgo u'hkn'wr 'mqug'uvqpgu'cpf 'f gdtku. 'uq'vj g'qr gtcvqt 'cpf 'gxgt { qpg'lp'vj g'ctgc'o wuv' y gct'uchgv' 'i ngu'qt' 'i qi i ngu0'

ÉÁ Vj g'qr gtcvqt'o wuv'dg'ectghw'lpqv'v'f k gev'vj g'dtqgo 'cv'qvj gt'y qtngtu0'

ÉÁ Cny c{ u'uj w'qh'vj g'gpi kpg'cpf 'rgv'k'eqqn'c'dk'dghqtg'tghwgnkpi 0'

ÉÁ Vj gtgaur'qv'p'kn'v'f co ci g'vj g'tqqh'ku'grh. 'r ctvewrctn' 'kh'k'ku'c'ukpi rg/r n' "

"

Vj g'vy q'i tgcgvu'j c| ctf u'vj cv'tguwn'htqo 'wukpi 'r qy gt'dtqgo u'ctg'hcmu'cpf 'g{ g'lp'wtkgu0Vj g'r qy gt'dtqgo "qr gtcvqt'o wuv'dg'vj qtqwi j n' 'v'clpgf 'v'q'r t'gxgpv'vj gug'j c| ctf u'd{ 'wvf gtucpf kpi 'ku'uchg'qr gtcvqp0'

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# TOOLBOX TALKS

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## Tqqh'Ewwgtu'

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☞ **Personal protective equipment is a must when operating a roof cutter."**

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ÉÁ G{g'r tqvgevqp'kp'yj g'hqto "qh'i qi i ngu'qt'uchgv' 'i rcuugu.'y j gvj gt "{qw'ctg'yj g'qr gtcvqt "qt'ctg'y qtnkpi "

ÉÁ Xgt { "f wuv' "lqdu'o c { "y cttcpv'i qi i ngu'qxgt'uchgv' 'i rcuugu' "

ÉÁ J gctkpi "cpf 't gur kcvqt { 'r tqvgevqp'o c { "dg'pggf gf "cu'y gnt' "

"

☞ **Cushioned handles will help to reduce the amount of vibration from the machine.**

"

☞ **Roof cutters also pose hazards to passers-by and nearby property.**

ÉÁ Dgecwug'tqqh'ewwgtu'j cxg'c'vgpf gpe { "v'vj tqy 'i txcgr'cpf 'f gdtku."qr gtcvki "qpg'ecp'ko r cev'r gqr ng" cpf "qdlgew'qvj gt'vj cp'vj qug'qp'vj g'tqqh'Vt { "v'eqqtf kpcvg'qr gtcvqpu'y kj "dwkf kpi "qy pgtu'kp'qtf gt" v'r txcgr'v'f co ci g' "

"

☞ **Take care when adjusting the cutting blade.**

ÉÁ K'vj g'drcf g'ku'ugv'vqq'ny . "{qw'o ki j v'cewcm' "hpf "{qwtugh'ewwki "vj tqwi j "vj g'tqqh'f gen' "

"

☞ **Before refueling, shut off the engine and allow it to cool as much as possible. Don't smoke while refueling the roof cutter, or any other piece of gasoline-powered equipment.**

"

Tqqh'ewwgtu'ctg'gzegnpv'r kgegu'qh'gs vkr o gpv'hqt'ucxkpi "ko g'qp'rti gt'lqdu'F qp'v'icm'kp'v'j g'v'cr "qh'" \$j cuvg'o cngu'y cuvg'\$'vj qwi j 'O'Vcng'gpqwi j "ko g'v'dg'ectghw'f Rtqgev' { qwtugh'cpf "qvj gtu'htqo "h' kpi 'tqemu'cpf " f gdtku.'cpf "vj g'qvj gt'j c| ctf u'vj cv'ecp'dg'r tgu'p'v'y j gp'tqqh'ewwgtu'ctg'wugf ' "

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***Rqy gt 'Dtqqo u'Vtckpki 'Vku'***

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É F go qpwtcvg'y g'ecr cdkk\ "qh'tqqh'ewwgtu'v'q'y tqy "uo cml'wqpgu'cpf 'f gdtku0'  
É Uj qy "go r m{ ggu"j qy "v'q'iqy gt 'y g'ewwki "drf g."cpf "j qy "v'q'nggr 'ltqo "iqy gtlpi 'k'vqq'ht0'  
É Cun'y g'hqmqy kpi "s wguvqpu<  
É ""Y j { 'ku'k'uq'lo r qtvcv'v'q'y gct "g{ g'r tqvgevkpA"  
" É ""Y j cv'y kmj cr r gp 'kh'y g'drf g'ku'ugv'vq'iqy A'  
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# TOOLBOX TALKS

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## Uechhqrif u'

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☞ **A scaffold is only as solid as its foundation.**

É Uechhqrif u'o wuv'dg'gtgevgf "qp' hko . 'uqrf' 'i tqwpf . 'hkg'"

" eqpetgvg'qt'eqo rcevgf 'uqkf'

É Mggr 'cy c{ 'hko 'ucpf . 'mqug'tqemu'cpf ' ukf gu'qh"

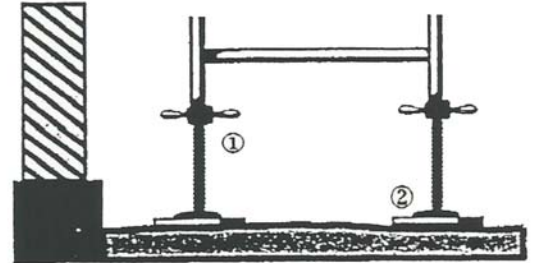
gzecevcvqpu0"

③Á Cny c{ u'wug'dcug'r ncvg'uetgy lcemu'vq'o cng'rgxgkpi 'vj g'"  
u{ uvg'o 'gculgt0"

④Á Wug'o wf ukmu'qp'wpvgxp'i tqwpf "qt'eqo rcevgf 'f kp0

ÉÁ C" eqo r gvgp'v' rgtuqp" o wuv' f gekf g" y j cv' hcm' r tqvgv'kp" o gvj qf u" y km' dg" wugf " y j gp" gtgevcpi " qt"  
f kuo cpvkpi 'uechhqrif u0

"



☞ **Make sure you use scaffold components correctly then erecting the system.**

É Cnleqo r qpgpw'u'o wuv'dg'htqo "vj g' uco g'o cpwcewtgt . 'wprgu'vj g'eqo r gvgp'v' rgtuqp" f gekf gu'vj cv'r ctvu"  
htqo 'qvj gt' u{ uvg'o u'ctg'uchg'vq'wug0

É O cng'lwgt'cm'gpf ' htco gu'ctg'ugewtgn 'eqppgevgf 'y kj 'etquidteckpi 0'

É Wug'eqppgevcpi 'r kpu'y j gp" { qw'ucen'lo wnk'rg'rgxgmu'qh'gpf 'htco gu0

É" K'vj gtg'ku'c'r quukdkk{ 'qh'wr rkh'htqo 'y kpf . 'vj gp'wug' menkpi 'r kpu'qt'vj gk'gs wkxcrgpv0

"

ÉÁ **When a scaffold's height exceeds four times its width, it must be secured to the building at least every 30 feet horizontally. Wind screens may require additional tie-ins.**

É K'vj g'uechhqrif 'u{ uvg'o 'ku'vj tgg'hggv'y kf g'qt' rguu . 'k'o wuv'dg'ugewtgf 'cv'rgcu'v'gxgt { '42'hggv'xgtv'ecm{ 0'

É K'k'u'o qtg'vj cp'vj tgg'hggv'y kf g'vj gp" { qw'o wuv'ugewt g'k'cv'rgcu'v'gxgt { '48'hggv'xgtv'ecm{ 0'

"

ÉÁ **Completely plank the work area, and use fall protection.**

É R'rcpmu'j cxg'vq'dg'uechhqrif 'i tcf g'hwo dgt'cpf 'dg"

" o ctngf 'cu'weej 0'

É Vj g'r rcpmu'ecppqv'f gh'gev'o qtg'vj cp'nl82vj 'qh'vj g"

" ur cp'u'rgpi vj 0'

É I wctf tcku'o wuv'dg'gtgevgf . 'r gt'QUI C"ur gekh'ecv'kpu0

"

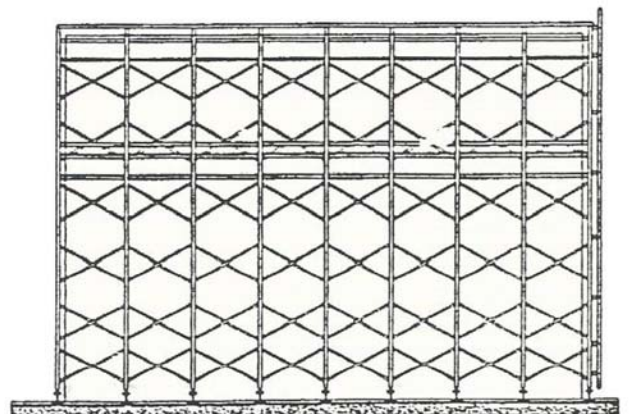
ÉÁ **Crossbraces cannot be used to access or climb down from a scaffold system.**

É [ qw'o c{ 'erko d'vj g'gpf ' htco gu'kh'vj g'twpi u'ctg"

" cv'rgcu'v' \$'mipi 'cpf 'pqv'o qtg'vj cp'38Z \$'cr ctv0

É R'rvh'qto u'o wuv'dg'cxck'rdrg'cv'rgcu'v'gxgt { '57'hggv0

"





*I cu/Rqy gt gf 'čpf 'Grgvltk 'Rqy gt 'Vqqnu'Vt cklpki 'Vkr u'*

ᐃᐱ J qrf "y g"Vqqrdqz "Vcmlo ggkpi "pgzv"q"cj "gtgewgf "uechqrf "cpf "r qkp"qw"y j gtg"kv"ku"ugewtgf "cpf "y j gtg"  
y g"xctkqwu"r ctw"qh"y g"u" ugo "ctg"mcewef "o wf "ukmu."uetgy lcemu."etquudtceki +0'

ÉÁ Gzr nkp'y j cv'y kpf "wr nkiv'ku0'

ÉÁ Cum'vj g'hqmqy kpi 's wguvqpu<

É'''Ctg''{qw'cmqy gf''v''enkd''j g''etquudtcekpi A'

" É""Y j cv'ku'yj g'dguv'y c{ "vq"ngxgn'c'uechhqrnf'u{ uvgo A"

P q v g u < "

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 "\*\*\*\*\*" Fcwg "\*\*\*\*\*" Uki pcwt g"qh'Rt gupvgt "

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# TOOLBOX TALKS

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## *I cu/Rqy gt gf 't'pf 'Grgext le 'Rqy gt 'Vqqnu'*

"

☞ **There are four types of power tools."**

É I cu/r qy gt gf "

É Grgext le "

É Rpgwo c'ke "

É Rqy f gt/cewcvgf "

"



☞ **ÁThis Toolbox Talk will address gas-powered and electric tools.**

☞ **ÁAlthough each power tool has its own unique hazard, there are some common ground rules for all tools.**

É Gcej 'r qy gt 'vqqn'bo wuv'dg' l'pur gevgf 'hqt'f ghgew'r t'kqt 'v'wug0'

É F ghgew'xg 'vqqnu' 'o wuv'dg' 'ci i gf 'cpf 'tgo qxgf 'htqo 'ugt'xleg0'

É Vqqnu'v'j cv'eww.'ej kr.'i t'kpf 'qt' h'kg'hcuvgpgtu.'o wuv'dg'wugf 'y kj 'CP UK'err tqxgf 'gxg'r tqvge'v'kp0'

É Hqt'gcej 'vqqn'v'j cv'j cu'c' i'wctf.'k'o wuv'dg'r t'gugpv'cpf 'kp'y qtn'kpi 'qtf gt0'

"

☞ **ÁGas-powered tools**

ÉÁ Uj w'gpi kpgu'q'h'cpf 'cmqy 'v'eqqn'dghqtg't ghw'erkpi 0'

ÉÁ Engcp'wr 'cp{ 'ur kmgf 'i cuq'n'pg'cpf 'pgxgt'cmqy 'uo qn'kpi 'kp'y g't ghw'erkpi 'ctgc0'

ÉÁ Uqqtg'i cuq'n'pg'kp'cr r tqxgf.'cpf 'r tqr gtn' 'rdgrgf.' uchgv 'ecpu0'

"

☞ **ÁElectric tools**

ÉÁ Gcej 'vqqn'bo wuv'dg'gs wkr r gf 'y kj 'cp' kp'cev'eqt'f 'cpf ' ut'ckp't'g'kgh'dqqv0'

ÉÁ O cng'uw'tg'cm'v'j tgg'r tqpi u'ctg'r t'gugpv0' Ki 'qpg'ku'o ku'kpi . 'v'gm'f{ qwt'uw'r gtxkuqt 'uq'k'ecp'dg'ci i gf 'cpf " tgo qxgf 'htqo 'ugt'xleg 'Vj g'y'j k'f 'r tqpi 'ku'y g'i tqw'pf kpi /r kp'w'pf 'k'ku'p'ggf gf 'v'j' gr 'r t'gxgpv'uj qen0'

ÉÁ F qwdng/kpuw'cv'gf 'vqqnu'y kn'qpn' 'j c'xg'y q'r tqpi u'cpf 'v'j g'vqqn'bo wuv'dg'engctn'f 'o ctngf 'cu'w'ej 0'

ÉÁ Wug'c'i t'qwpf 'h'cw'n'ek'ewk' kp'v'gtt'w'v'gt 'I HE K'v'j' gr 'r t'gxgpv'uj qen0' Ki 'v'j gtg'ctg'pq' I HE Ki.'f{ qwt " eqo r cp{ 'uj qwf 'j c'xg'cp'cu'wtg'f 'i t'qwpf kpi 'r tqi tco 'kp'r r'eg0'

ÉÁ O cng'uw'tg'f{ qwt 'gz'v'puk'p'eqtf u'ctg'v'j g'eqttge'v'v'f r g'cpf 'ctg'kp'i q'qf 'y qtn'kpi 'eqpf k'k'qp0'

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*Uechhɨŋ u'Vtɕɰɰi 'Vkr u'*





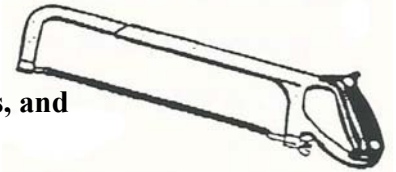
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## J cpf 'Vqqni'



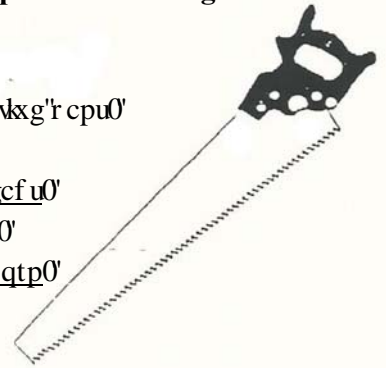
☞ Hand tools include everything from screwdrivers to handsaws, and any other tool that is manually powered.



☞ It's essential to perform regular maintenance to keep hand tools in good working order.



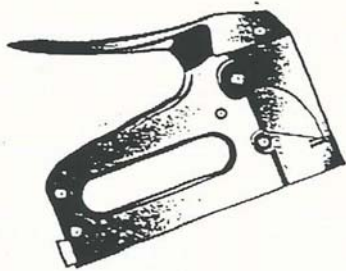
ÉÁ Tgr mæg'dtqngp'qt'etcengf'j cpf ngu'cpf'qyj gt'f ghgevkxg'r cpu0'  
 ÉÁ Uj ctr gp'czgu'cpf'ucy u0'  
 É Wug'i tlpf gtu'q'nggr 'ej kugni'tgg'qh'o wuj tqgo gf'j gcf u0'  
 É Rwp'gy 'dnrf gu'kpq'wkkv' 'hpkxgu'qp'c'tgi wrct'dcuka0'  
 É Vj tqy 'cy c' 'cpf' 'tgr mæg'vqqni'yj cv'tg'utkr r gf'qt'y qtp0'



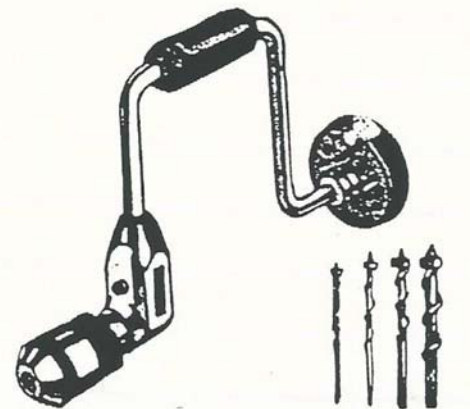
☞ Even though there are no mechanical parts, manual tools do present hazards.



ÉÁ Cny c{u'y gct'cr r tqr tlcvg'r gtuqpcn'r tqgevkxg'gs wkr o gpv'RRG-0kpenwf kpi 'CP UK  
 cr r tqxgf'g{g'r tqgevkxg'y j gp'y qtnkpi 'y kj 'vqqni'yj cv'j cxg'uj ctr 'gf i gu'qt'ctg'hkngn' 'vq'  
 i gpgtcvg'hn kpi 'r cplengu0'  
 ÉÁ K r tqr gtn'wugf'j cpf 'vqqni'ecp'tguwn'lp'r wpewtgu.'ewu.'qt'dtqngp'dqpgu0'  
 ÉÁ Wkkv' 'hpkxgu'cpf'qyj gt'uj ctr 'vqqni'o wuv'dg'nggr v'lp'c'uchg'r mæg'y j gp'yj g{ 'ctg'pqv'  
 dgkpi 'wugf 0'  
 ÉÁ Cni'vqqni'uj qwf 'dg'wugf 'hqt'yj gk'kpvgpf gf'r wtr qugu'qpn' 0'  
 ÉÁ F q'pqv'wug'ej gcvgt'dctu'qp'r t{ 'dctu'qt'  
 y tgepj gu'q'kpetgcug'qwt'ngxgtci g. 'Vj ku'  
 ecp'f co ci g'qt'f gwtq{ 'y j g'vqqn'cpf'o c{ ''  
 tguwn'lp'r gtuqpcn'kplwt{ 'cu'y gni'



K'ku'ko r qtvcpv'q'o clpvclp'j cpf 'vqqni''  
 dgecwug'yj g{ 'ctg'gculn' 'y qtp'qt''  
 f co ci gf 0Rtqr gtvl'f co ci g'qt'r gtuqpcn'  
 kplwt{ 'ecp'tguwn'ltqo 'wukpi 'dtqngp''  
 vqqn0qt'ltqo 'wukpi 'yj go 'hqt'qyj gt''  
 yj cp'yj gk'kpvgpf gf'r wtr qugu0'





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## *J cpf 'Vqqnu'Vtckpki 'Vku'*

É J cxcg'c'pwo dgt'qh'f co ci gf "cpf 'y qtp'vqnu'cxckcdng"cpf "cunlgo r nq{ ggu'vq'kf gpvh{ 'y j lej "ecp'dg"  
tgr cktgf."cpf 'y j lej 'pggf 'vq'dg'tgr nregf 0'

É Cuni'j g'hqmy kpi "s wguvqpu<

" É""Y j { 'ku'k'ko r qtvcpv'vq'hggr "ej kugr'j gcf u'htgg'qh'o wuj tqgo uA'

" É""Y j { 'ku'g{ g'r tqvgevkqp'ko r qtvcpv'y j gp'wukpi 'j cpf 'vqnuA'

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# TOOLBOX TALKS

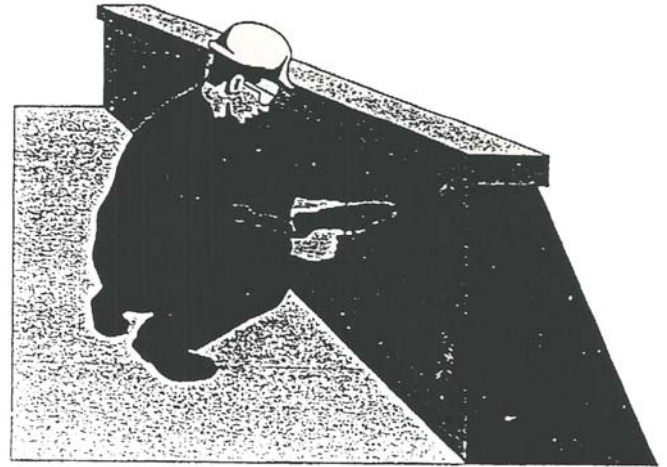
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## Rpgwo ckle'cpf'I wp/Rqy fgt/Cewcvgf 'Vqqnu'

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☞ **Two general classifications of power tools** are pneumatic and gun-powder-actuated. Although each power tool has its own unique hazard, there are some common ground rules for all tools that must be followed. "

É Gcej 'r qy gt 'vqqn'o wuv'dg'kpur gevfg 'hqt'"  
" f ghgevu'r tktq 'vq'wug0'  
É F ghgevkxg'vqqnu'o wuv'dg'ci i gf 'cpf 'tgo qxgf'"  
" htqo 'ugt xleg0'  
É Y gct 'CP UKerr tqxgf 'gxg'r tqvgevqp'y j gp"  
" wukpi 'vqqnu'y cv'ew:'ej kr .i tlpf 'qt'htg'"  
" hcvpgtu0'  
É Klc'vqqnj cu'c'r tqvgevkg'i wctf . 'o cng'wutg'"  
" yj cv'ku'kp'y qtnkpi 'qtf gt0'  
"



☞ **Pneumatic tools**

ÉÁ O cng'wutg'cmj qug'eqppgevqpuc'tg'ugewt gf 'vq'r t g xgpv'ugr ctcvkqp0'  
ÉÁ P qwh{ '{ qwt'uwv gtxluqt'kh' { qw'pqvleg'j qugu'uj qy kpi 'uki pu'qh'y gct. 'uq'yj cv'yj g{ 'ecp'dg'ci i gf 'cpf' tgo qxgf 'htqo 'ugt xleg0'  
ÉÁ Rpgwo ckle'vqqnu'ecp'i gpgtcvg'j ki j 'pqkug'ngxgnu0Cumi{ qwt'uwv gtxluqt'kh'j gctkpi 'r tqvgevqp'ku'tgs wkt gf 0'  
ÉÁ J qrf 'pckni wpu'cpf 'r qy fgt/cewcvgf 'vqqnu'r gtr gpf lewrt 'vq'yj g'uwthceg0'  
"

☞ **Powder-Actuated tools**

ÉÁ Gcej 'go r m{ gg'o wuv'dg'r tqr gtn 'tclpof 'dghqtg'wug0'  
ÉÁ G{g.'hceg'cpf'j gctkpi 'r tqvgevqp'o wuv'dg'y qtp'y j gp'wukpi 'yj gug'vqqnu0'  
ÉÁ Klc'r qy fgt/cewcvgf 'vqqn'o kuktgu .y ck'cv'ngcu'52'ugeqpf u'dghqtg'htkpi 'ci clp0'  
ÉÁ P gxgt'uj qqv'hcvpgtu'kpq'y qqf 'qt'qyj gt'my 'f gpukv 'uwthcegu0'  
ÉÁ **Make sure all manufacturer's recommendations are followed at all times!**

"

Rpgwo ckle'cpf'i wp/r qy fgt/cewcvgf 'eqqnu'ecp'dg'f cpi gtqwu'kh'yj g{ 'ctg'wugf 'lpeqttgevn{ 00 cng'wutg' '{ qw'ctg' xgt { 'hco kkt' y kj 'yj g'qr gtcvkqp'qh'gcej 'vqqn'dghqtg' '{ qw'wug'k0'  
"



*Rpgwo cɪkɛ'ɕpɸ'I wɸ/Rqy.fgt/Cewcwɸf'Vqqnu'Vtɕkɸkɸi 'Vkr u'*

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# TOOLBOX TALKS

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## Vt wemO qwp vgf 'Etcpg'Uchgv''

O quv'uchgv' 'luwgu'hqt'etcpgu'cr r n' 'v'j g'qr gtcvqt=j qy gxgt. "gxgt { qpg'qp'v'j g'lqd'ukg'uj qwrf "dg'cy ctg'qh" etcpg'uchgv' 'twrgu'OGxgp'kh' { qw'ctg'pqv'ep'qr gtcvqt' { qw'o c { "uqo gf c { "dg'ecmgf "wr qp"v'q'rgctp'uki pcni'cpf "dg"c" uki pcni cp. "qt'dg'cungf "v'cuukv'v'j g'qr gtcvqt'lp'i wkf lpi "v'j g'dqgo OCv'v'j g'xgt { "rgcuw' { qw'uj qwrf "tgcrl g'y j cv'v'j g' etcpg'qr gtcvqt'uj qwrf "cpf "uj qwrf "pqv'dg"f qkpi "cpf "y j cv' { qw"cu" c"etgy "o go dgt. "uj qwrf "cpf "uj qwrf "pqv'dg" f qkpi "y j gp" { qw'ctg'ctqwpf "c'etcpg'lp'qr gtcvqpO'

☞ **Crane operators must be specifically trained on each crane they operate."**

☞ **Crane booms should always be at least ten feet from electrical lines.**

☞ **Loads should always be swung away from crew members and the public.**

☞ **Outriggers should be deployed whenever the crane is in use."**

ÉÁ K'v'j g'qwtli i gtu'ecppqv'dg'ugv'qp'hto "i tqwpf. "v'j gp'etkddkpi "o wuv'dg'wugf "v'q'etgcvg'c'hto "cpf "rgxgn' uwthcegO'

☞ **The signal man must be trained in all of the signals or must wear a wireless headset so he can communicate with the crane operator.**

☞ **A crane can never be used outside of its operating limits.**

☞ **Shock loading, swinging loads too quickly, or bouncing loads places too much tension and stress on the crane booms and cables.**

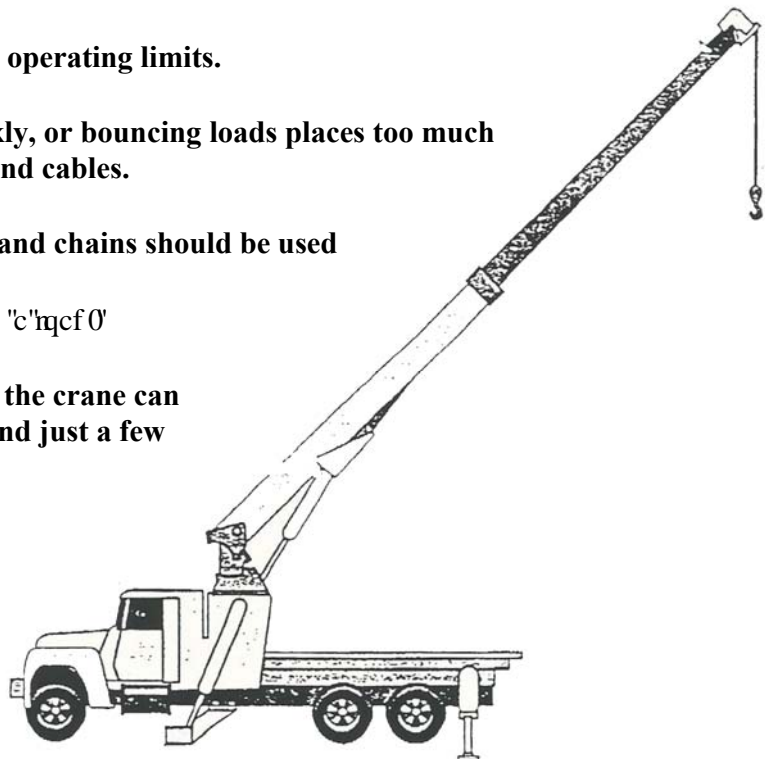
☞ **Only appropriately rated slings, ropes, and chains should be used when lifting a load.**

ÉÁ C"tqcf "hpg'uj qwrf "pgxgt "dg'wugf "v'q'tki "c"tqcf O'

☞ **The rigging of the load and stability of the crane can be tested by lifting the load off the ground just a few inches before committing to the lift.**

☞ **Employees accepting the load on the roof must use fall protection.**

ÉÁ Vci "hpgu'ctg'j gr hwi'hqt'eqpvtqmkpi "" tqcf u. "gur gekm' "qp'y kpf { "f c { uO'





"

## *Vt wem'O qwpvgf 'Etcpg'Uchgv'Vtckpki 'Vkr u'*

É Uj qy "go r m{ ggu'c"etcpg"cpf "gzr rkp"ku'dcule"qr gtcvkp'kh'yj g{ "ctg'wphco kkt'y kj 'k0'

É Gzr rkp'y j cv'uj qen'ufc kpi "cpf "dqwpckpi "ctg0'

É F go qpwtcv'j cpf "uki pcn0'

" É""Cun'yj g'hqmy kpi 's wgvkqp<"

" É""K{ qw'ecp'hi wtg'qw'j qy 'yj g'etcpg'ku'qr gtcvgf="ecp"{ qw'lwv'o qxg'c"uo cm'ufc 'kp'c'r kpej 'gxgp'kh'{ qw"

" " j cxgp'dggp'vckpgf A'

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# TOOLBOX TALKS

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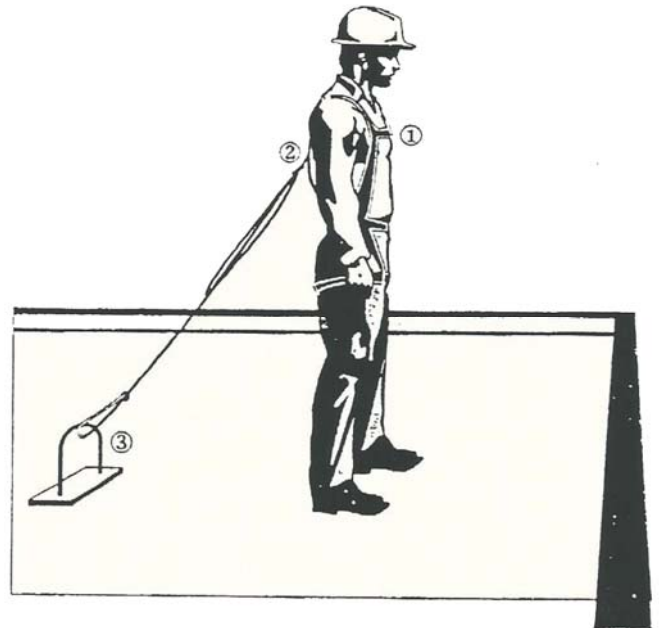
☞ **A personal fall arrest system consists of a full body harness (body belts cannot be used for personal fall arrest), a lanyard with locking snaphooks, a safety line, and an anchorage point.**

☞ **The design of the system must meet certain specifications.**

③ **A lanyard must be used to connect the harness to the anchorage point.**

④ **A lanyard must be used to connect the harness to the anchorage point.**

⑤ **A lanyard must be used to connect the harness to the anchorage point.**



☞ **Fall protection devices have to be inspected before each use.**

ÉÁ **Nqqm hqt'y gctOf co ci g'qt'f gvtlqtcvqpO'**

ÉÁ **Ej gem hqt'dtqngp"qt'f ghqto gf "upcr j qqmu"qt"**

ÉÁ **Gs wkr o gpv'y kj "f ghgewu"o wuv'dg'tgo qxgf "cpf "ci i gf "hqt'tgr ckt."qt'f kuctf gf O'**

☞ **Make sure the system is installed and worn correctly.**

ÉÁ **Cxqkf "v{ lpi "qhh'ctqwpf "tqwi j "qt'uj ctr "gf i guO'**

ÉÁ **C'hcm'o wuv'dg'rko kgf "v{ ukz'hggv"30 4; "o +O'**

☞ **When the equipment is actually used to arrest a fall, it must be removed from service and a competent person must inspect it to determine whether or not it is reusable.**

☞ **Never use a body harness to hoist materials.**

☞ **Fall arrest equipment should not be stored where it will be exposed to sunlight or extreme temperatures.**



*Rgtuqpcn'Hcni'Cttguw'U{ungo u'Vtcklpi 'Vkr u'*

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# TOOLBOX TALKS

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## Tguf gp wcnHc mRt qvgevqpp 'Qr wqpp "

☞ **Slide guards are roofing brackets with 2" x 6" (nominal) planks.**

☞ **Projects that use residential-type roofing materials can use roofing slide guards as a fall protection method, if the following two conditions are met.**

ÉÁ Vj g'ny gt'gxcg'ku'47'hggv'qt'ngu'htqo "y g'i tqwfp." "cpf "

ÉÁ Vj g'urqr g'ku'ngu'v cp'qt'gs wcn'vq': /kp/340' "

☞ **For projects with a roof that has a slope less than or equal to 6-in-12 ...**

ÉÁ Gcxcg'urkf g'i wctf u'o wuv'dg'kpucmgf "cv'c"; 2"

\*r nu'qt'o kpwu'h12-cpi rg'vq'y g'tqqh'uwthceg0'

ÉÁ Vj ku'urkf g'i wctf "o wuv'dg'kpucmgf "eqpvpwqwnf" cnpqi "y g'gxcg0'

ÉÁ P q'o qtg'y cp'y tgg'eqwtugu'qh'tqqh'pi "o cvgtkn'ecp'dg'rkf "dghqtg'y g'urkf g'i wctf "ku'kpucmgf 0'

ÉÁ Wug'c'uchgv' "o qpkqt'u{ ugo "hqt'htuv'y tgg'eqwtugu0' "



☞ **For projects that have a roof with a slope of greater than 6-in-12, up to and including 8-in-12 ...**

ÉÁ Urkf g'i wctf u'o wuv'dg'kpucmgf "eqpvpwqwnf" cnpqi "y g'gxcg0'

ÉÁ Cffkkqpcn'urkf g'i wctf u'o wuv'dg'kpucmgf "cugpf kpi "y g'tqqh'cv'lpvgtxcnu'pq'i tgcvt'y cp'gki j v'hggv' cr ct0Vj gug'urkf g'i wctf u'ctg'tgs wkt gf "qpn' "wfp gt'y g'y qtmictgc0'

ÉÁ Vj g'r ncpm'qh'y g'cfffkkqpcn'urkf g'i wctf u'o c{ "dg'ug'cv'cp"cp'rg"o qtg'uwkcdrg'hqt'y cmkpi . "kh" r tghgttgf 0' "

☞ **An general, material must be stored no closer than six feet to the rake edges.**

ÉÁ O cvgtkn'ecp'dg'pq'emugt'y cp'ukz'hggv'htqo "y g'tcng'gf i g'gzegr v'ht'wrg'qt'o gvcn'tqqh'pi "lqdu'y j gtg" o cvgtkn'o c{ "dg'y kj kp'y tgg'hggv'qh'y g'tcng'gf i g0'

ÉÁ Tqqh'pi "y qtngtu'ctg'pqv'cmgy gf "vq'dg'cp{ "emugt'y cp'ukz'hggv'vq'y g'tcng'gf i g'gzegr v'vq'r gthqto " y qtn0'

ÉÁ Vj g'ctgc'dgmgy "y g'tcng'gf i g'o wuv'dg'htgg'qh'ko r crgo gpv'j c| ctf u0' "

☞ **You are permitted to use a safety monitor system on tile and metal projects.**

ÉÁ C'uchgv' "o qpkqt'o wuv'dg'c"eqo r gvpv'r gtugp'y j q'ecp'ugg'cpf "y ctp'etgy "o go dgtu'kh'y g{ "ctg" y qtmkpi "wpuchgv' "qt'kh'y g{ "ctg'emug'vq'hcmj c| ctf u0Vj g'uchgv' "o qpkqt'ecp'j cxcg'qy gt'f wkgu0' r tqxkf gf "y g{ "f q'pqv'f gwccevtqo "j ku'qt'j gt'cdkx{ "vq'ugt'xg'cu'c"o qpkqt0' "



*Tguf gp vlc nHc mRt qvgevqp 'Qr vqp 'Vt c k p i 'V k u'*

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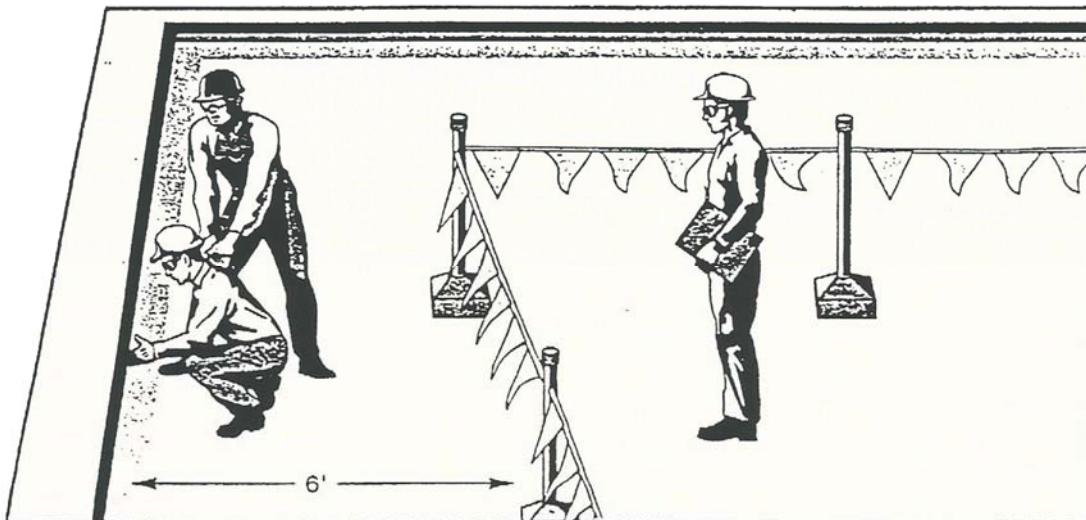


# TOOLBOX TALKS

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## Uchgv 'O qpkqt 'U{ ugo "

- ☞ **A Safety Monitor System can be used as the only means of fall protection on a low slope (4-in-12, or less) roof that is less than 50 feet across.**
- ☞ **A Safety Monitoring Systems are also allowed on roofs that are wider than 50 feet, but must be used in conjunction with another fall protection system.**
  - ÉÁ Y ctpkpi 'hpgu'ctg'yj g'uko r rguv'cpf "o quv'r qr wrt'u{ ugo O'
  - ÉÁ Gxgp'y kj "yj g'y ctpkpi 'hpgu.'yj g'Uchgv 'O qpkqt kpi 'U{ ugo "o wuv'dg'kp" wug'y j gpgxgt "go r m{ ggu'ctg" y qtnkpi "qwu'f g'yj g'y ctpkpi 'hpguO'
- ☞ **The Safety Monitor must be a competent person.**
  - ÉÁ C"eqo r gvgpv'r gtuqp"ku"
  - ÉÁ uqo gqpg'y j q"j cu'dggp"v'clpgf "q"dg"cdng"q"tgeqi pl g"cpf "cpv'ekr cvg"j cl ctf u"
  - ÉÁ cpf "y j q"ku'cwj qtk gf "q"v'cng"ko o gf k'vg"eqttge'v'xg"cev'kpO'
- ☞ **The Safety Monitor must be on the same working level, be able to see the employees he or she is monitoring, and be able to communicate with them verbally.**
- ☞ **The Safety Monitor may not have other duties that could interfere with his or her ability to act as a monitor.**
  - ÉÁ Uqo g'ucv'g'r r'pu."uwej "cu'Ecr'hqtpk'u"βpf "Y cuj kpi v'p'u."f q"pqv'cmqy "yj g'Uchgv "o qpkqt "q"j cxg" cpl "qj gt "f w'kgu'y j kg"cev'kpi "kp'yj g'o qpkqt kpi "ecr cekv O'kp'yj g'o clqtkv "qh'ucv'gu."yj g'uchgv "o qpkqt" ku'r gto kwgf "q"r gthqto "qj gt "f w'kguO'





"

## *Uchgv 'O qpkqt 'U{ungo 'Vtckpki 'Vku'*

É' Cun'go r n{ ggu'kp'y j cv'ukwckpu'y g{ 'y kpm'y g'Uchgv 'O qpkqt "qwi j v'q'y ctp"go r n{ ggu'  
É' F guetldg'y g'f wkgu'qh'c"eqo r gvgpv'r gtup"cu'y g{ "cr r n{ "q" { qwt"eqo r cp{ "qt" { qwt"ewttgpv'r tqlgev'  
É' Cun'y g'hqmgy kpi "s wgu'kpu<  
" É""Y j gtg'o wuv'y g'uchgv "o qpkqt "dgA"  
" É""Ecp'y g'uchgv "o qpkqt "dg'r gthqto kpi "cp{ "y qtmqy gt'y cp"cevkpi "cu'c'uchgv "o qpkqtA"  
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" "F cvg " "Uki pcwtg"qh'Rt gupvgt"  
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Cf f kkp cn Vqr leu F k ewugf < "aaa"  
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# TOOLBOX TALKS

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## Unf rki j w'cpf 'Tqqh'Qr gplpi u'

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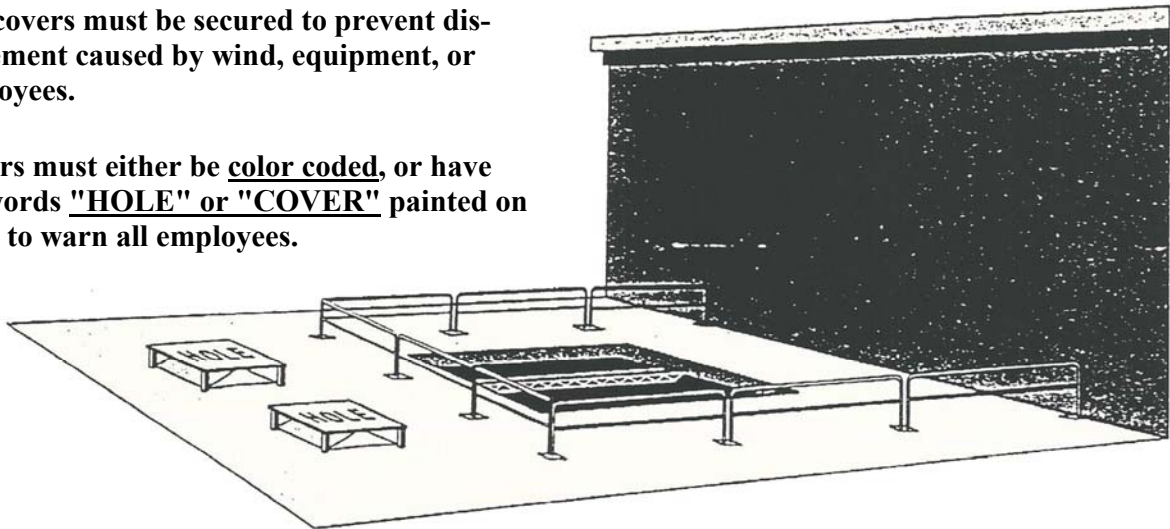
Go r m{ ggu'o wu'dg'r tqvgevf 'htqo 'hcmkpi 'vj tqwi j 'j qrgu'kp'vj g'tqqhOC'j qrg'ku'f ghpgf 'cu'cp{ 'tqqh'qr gplpi " vj cv'ku'cv'hcuv'4\$'y kf gOC'umf rki j v'hkwtg'o c{ 'pqv's workh{ 'cu'c'r tqr gt'eqxgt 'h'k'u'pqv'utqpi 'gpqwi j 'vq' uwr r qtv'y keg'vj g'y gki j v'qh'go r m{ ggu'cpf 'o cvgtknu0

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☞ **Protection from falls through roof openings and skylights can be in the form of personal fall arrest systems, covers, or guardrail systems.** "

☞ **The covers must be secured to prevent displacement caused by wind, equipment, or employees.**

☞ **Covers must either be color coded, or have the words "HOLE" or "COVER" painted on them to warn all employees.**



☞ **If a cover is used, it must be capable of withstanding at least two times the weight of the workers and materials that are likely to stand on it or be placed upon it.**

☞ **Warning lines can be used to cordon off areas where a number of skylights are located.**

☞ **If the cover or guardrail system must be removed to install wood blocking or flashings, employees must use personal fall arrest systems.**

Unf rki j w'cpf 'tqqh'qr gplpi u'r qug'ugxgtg'j c| ctf u'hqt'q'w'y j gp'q'w'g'qp'vj g'tqqhOC'k'o c{ 'uggo 'wprkngn{ 'vq' { qw'pqy 'vj cv'q'w'eqwf 'ceekf gpvcml 'hcm'vj tqwi j 'c'umf rki j v.'dw'r rgpv{ 'qh'tqqh'kpi 'go r m{ ggu'j cxg'dggp" kplwtgf 'qt'iquv'vj gk'hxgu'dgecwug'c'umf rki j v'qt'tqqh'qr gplpi 'y cu'pqv'r tqr gtn{ 'eqxgtgf 'qt'drqengf 0

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*Umŋki j wu'cpf 'Tqqh'Qr gpkpi u'Vtckpkpi 'Vkr u'*

P q v g u < "

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CffkkqpcnVqr leuF kuewugf <aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa>
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# TOOLBOX TALKS

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## Y ctpkpi 'Nkp'U'ugo u'

"

Go r m{ ggu'o wu'dg'r tqvgevf 'htqo 'hcmkpi 'vj tqwi j 'j qrgu'kp'vj g'tqqhOC'j qrg'ku'f ghkpgf 'cu'cp{ 'tqqh'qr gpkpi " vj cv'ku'cv'hgcuv'4\$'y kf gOC'umf rki j v'hkz wtg'o c{ 'pqv's wcrkh{ 'cu'c'r tqr gt 'eqxgt 'kh'ku'pqv'utqpi 'gpqwi j 'vq' uwr rqtv'y keg'vj g'y gki j v'qh'go r m{ ggu'cpf 'o cvgtknu0

"

☞ **Warning lines are for use on roofs:**

ÉÁ vj cv'ctg'ukz 'hggv'qt'j ki j gt0'

ÉÁ vj cv'j cxg'umr gu'qh'hqwt 'kpej gu'kp'y gkxg'qt'rguu."

ÉÁ vj cv'ctg'y kf gt'vj cp'hkm' 'hggv' 'cpf "

ÉÁ vj cv'j cxg'r cter gv'y cmu'rguu'vj cp'5; \$'j ki j 0'

"

☞ **The lines are made of rope, wire, or chain, and are flagged at least every six feet.**

ÉÁ Vj g'rkpgu'o wuv'j cxg'c'v'gpkrg' dtgcmkpi +utgpi vj 'qh'cv'hgcuv'722'r qwpf u0'

ÉÁ Vj g{ 'j cxg'vq'dg'uwr r qtvgf 'd{ 'ucpej kqp'r quuv'y j kej 'ecp'y kj ucpf 'cv'hgcuv'c'38'r qwpf 'vkr r kpi 'hqteg0"

ÉÁ Vj g'j gki j v'htqo 'vj g'tqqh'uwthceg'vq'vj g'y ctpkpi 'rkpg'o wu'dg'dgy ggp'56'cpf '5; 'kpej gu0'

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☞ **All open edges near the work area must be guarded by warning lines.**

ÉÁ Y j gp'vj gtg'ku'pq'o gejcplecni'gs vkr o gpv'dgkpi 'wugf . 'vj g'rkpgu'j cxg'vq'dg'ugv'kp'ukz 'hggv'htqo 'cm'gf i gu0'

ÉÁ Y j gp'o gejcplecni'gs vkr o gpv'ku'dgkpi 'wugf . 'vj g'rkpgu'o wu'dg'v'gp'hggv'htqo 'vj g'gf i g'kp'vj g'f k'gevkqp" vj g'o cej kpg'qr gtcvqt'ku'tcxgkpi . 'cpf 'ukz 'hggv'kp'qp'vj g'ukf gu0'

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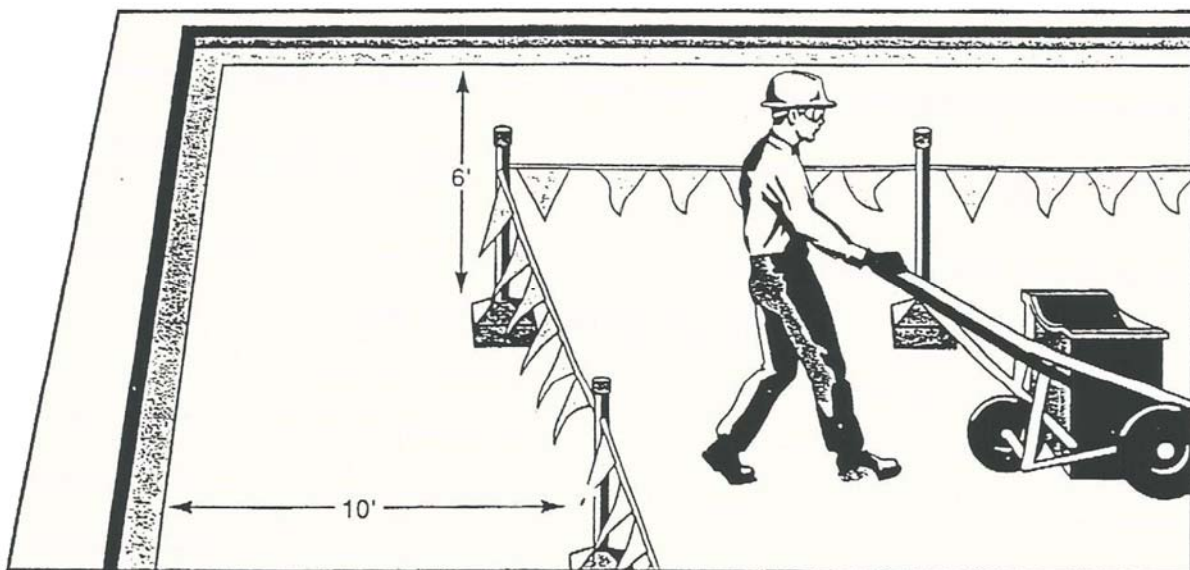
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☞ **Mechanical equipment cannot be used or stored outside the warning lines. Roofing materials also cannot be stored in the areas outside the warning lines**

☞ **Any workers outside the warning lines must be protected by a personal fall arrest system, guardrails, or a safety monitoring system.**



*Y ctpkpi 'Nkp g'Uŋgo u'Vtckpki 'Vkr u'*





# TOOLBOX TALKS

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## GrigntlecnUchgv''

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☞ **Electrical safety on the jobsite can be achieved by using a ground fault circuit interrupter (GFCI) or an assured grounding program.**

☞ **A ground fault circuit interrupter is a sensitive circuit breaker that detects small changes in amperage and trips very quickly.**

ÉÁ Ej genl'y g'I HE Ktgi wrctn { 'y kj 'y g'\$Vguv\$'cpf '\$Tgugv\$'  
dwwqpuO'

ÉÁ Kt'c'I HE Kku'hqwpf 'vq'dg'f ghgevxg.'k'uj qwf 'dg'ko o gf kvgn { ''  
tgo qxgf 'htqo 'ugt xleg'cpf 'tgr rcegf O'

ÉÁ C'I HE Ko wuv'dg'wugf 'vq'r tqgev'cm'grigntlecn'vqqu'cpf ''  
gz vgpukqp'eqt f uO'Vq'ceeqo r rkuj 'y ku.'k'o wuv'dg'r rcegf 'cv''  
y g'gpgti { 'uqwt egO'

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☞ **An assured grounding program is designed to ensure that equipment and extension cords are properly grounded.**

ÉÁ Vj g'hqmty kpi 'ctg'uchgv 'tgs wkt go gpw'ht 'gz vgpukqp'eqt f u'

ÉÁ Vj g { 'o wuv'dg'kpur gev f 'dghqtg'ht u'wugO'

ÉÁ Eqtf u'yj cv'ctg'htc { gf Oew.'qt'j cxg'gzzr qugf 'y kt gu'qt''  
kpuwrvkp'o wuv'dg'tgo qxgf 'cpf 'vci i gf O'

ÉÁ Wug'qpn { 'y tgg/r tqpi gf 'f qwdng/kpuwrv f 'gz vgpukqp'eqt f uO'

ÉÁ O cng'wug'yj g'i tqwpf kpi 'r kp'ku'r tgugpv'cpf 'eqppgev f O'

ÉÁ F q'pqv'cwcej 'gz vgpukqp'eqt f u'vq'yj g'lwthceg'qh'yj g'dwkrf kpi O'

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☞ **The following are safety requirements for tools:**

ÉÁ Cmlr qy gt 'vqqu'no wuv'dg'yj tgg/r tqpi gf 'v'f r g.'wprguu'yj g'vqqu'ku'engctn { 'o ctngf 'cu'dgkpi 'f qwdng'  
kpuwrv f O'

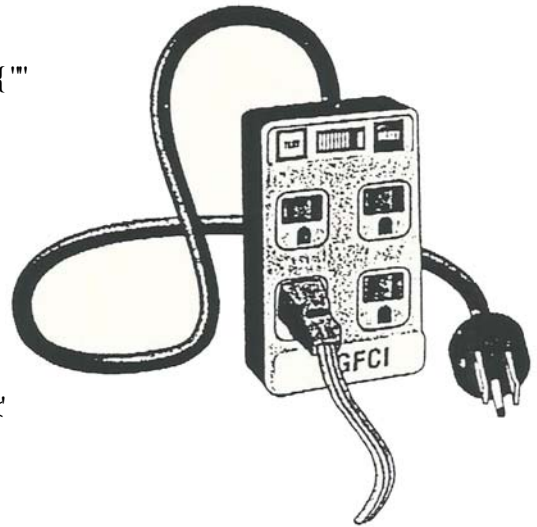
ÉÁ Vqqu'yj cv'ctg'pqv'f qwdng/kpuwrv f 'o wuv'dg'kpen f gf 'kp'yj g'cuwrt gf 'i tqwpf kpi 'r tqi tco O'

ÉÁ O cng'wug'yj g'i tqwpf 'r kp'qp'cp { 'y tgg/r tqpi gf . 'bpq/f qwdng/kpuwrv f 'r qy gt 'vqqu'ku'r tgugpv'O'K'yj g'  
i tqwpf 'r kp'3u'bo kuupi . 'kphqto { 'qwt'wvr gtxkqt O'

ÉÁ Ej genl'cm'eqtf uO'Vj g'vqqu'no wuv'dg'cngp'qww'qh'ugt xleg'kh'yj g'kpuwrvkp'kuo 'cm'gzzr qugf O'

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*Gigev k ec n' Uch g v' 'Vt c k p k p i 'V k r u'*

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# TOOLBOX TALKS

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## *Ej qqukpi 'y j g'Tli j v'Hkt g'Gz v'kpi wkuj gt "*

☞ **There are four classes of fire extinguishers.**

ÉÁ Ercuu'C 'hkt g'gz v'kpi wkuj gt u'ct g'wugf "qp'y qqf . 'r cr gt . 'qt 't'cu j 'hkt gu0' Dculec3n . 'cp { 'o cvgt kcn'v j cv'rgcxgu" cu j 'y j gp'k'u'dwt pgf +"

ÉÁ Ercuu'D 'hkt g'gz v'kpi wkuj gt u'ct g'wugf "qp' hco o cdr g' rks wkf u'cpf "i cu gu0'

ÉÁ Ercuu'E 'hkt g'gz v'kpi wkuj gt u'ct g'wugf "hqt 'gngext kecn' hkt gu0'

ÉÁ Ercuu'F 'hkt g'gz v'kpi wkuj gt u'qpn' 'pggf "v' dg'wugf "qp'eqo dwukdr g'o gvcn' hkt gu0'Eqo dwukdr g'o gvcn' kpen'f g'o ci pgukwo . 'uqf kwo "qt "q'v j gt "o gvcn' v' cv'gpf "y kj "y j g'ngwtu' \$wo \$0'

☞ **Be sure to use the correct fire extinguisher.**

ÉÁ Cp' CDE / tcvgf 'hkt g'gz v'kpi wkuj gt 'ku' v' j g' dguv' v' j cxg' qp' j cpf "dgecwug' k' y knr w' qw' cm quv' cm' v' r gu' qh' hkt g' gpeqwpvgf "qp' v' j g' tqqh0'

ÉÁ O cng' uwt g' v' j g' hkt g'gz v'kpi wkuj gt u'ct g' r tqr gtn' tcvgf 'hkt v' j g' lqdukg0' k' i gp gtcn' cp' gz v'kpi wkuj gt tcvgf 'cv' rgcuv' 4C' o wu' dg' r tqxkf gf 'hkt "gcej "5.222" us wct g' hggv' qh' v' j g' tqqh0'

☞ **Know where the fire extinguishers are located on the jobsite.**

ÉÁ [ qw' l'v j qwf "pqv' j cxg' v' j t'cxgn' o qt g' v' j cp' 322' hggv' v' j i gv' v' j c' hkt g'gz v'kpi wkuj gt0'

ÉÁ Y j gt gxt g' v' j gt g' ku' o qt g' v' j cp' 7' i cnpu' qh' hco o cdr g' qt' eqo dwukdr g' rks wkf u' . 'qt' o qt g' v' j cp' 7' r qwpf u' qh' hco o cdr g' i cu' v' j gp' v' j gt g' o wu' dg' c' v' rgcuv' qp g' hkt g'gz v'kpi wkuj gt "y kj "c' 32D' tcvkpi "y kj kp' 72' hggv' v' j ku' f qgu' pqv' kpen'f g' v' j g' rks wkf u' kpu' f g' qh' d' wkn' k' i cu' cpmu' qh' o qvqt "xgj kengu'0'

ÉÁ C' v' rgcuv' v' j q' hkt g'gz v'kpi wkuj gt u' o wu' dg' ngr v' qp' v' j g' i tqwpf "y kj "v' j g' ngwrg . 'cy c { 'htqo "v' j g' ngwrg' cpf " r tqr cpg0'

☞ **Memorize the PASS system for extinguishing a fire.**

③0 Á R' / "Rwm' v' j g' r kp0"

④0 Á C' / "Cko "v' j g' pql | rg' c' v' j g' dcug' qh' v' j g' hkt g0'

⑤0 Á U' / "Us wgg' g' v' j g' j' cpf rg0'

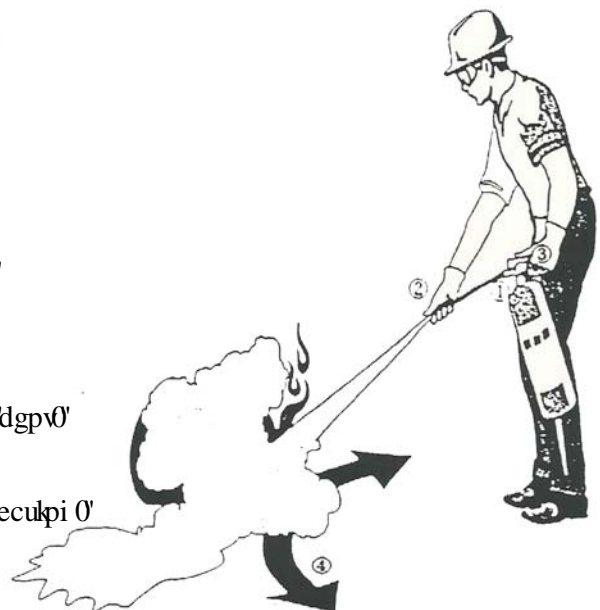
⑥0 Á U' / "Uy ggr 'htqo "ukf g' v' j ukf g' v' j eqxgt "v' j g' gpvkt g' hkt g0'

☞ **Fire extinguishers should be inspected monthly.**

ÉÁ O cng' uwt g' v' j g' mnenkpi 'r kp' ku' v' k' f 'kp' r rceg' cpf 'ku' pqv' dgpv0'

ÉÁ P qvg' v' j c' v' j g' pggf ng' ku' kp' v' j g' r tqr gt 'r tguuwt g' l' qp g0'

ÉÁ Nqqmihqt "cp { 't wuv' i' gpw . 'qt 'etcemu' cp { y j gt g' qp' v' j g' eculpi 0'





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## *Ej qqulpi 'vj g'Tk j v'Hkt g'Gz vpi wkuj gt 'Vtclpki 'Vku'*

É F go qputcvj"j qy "vq'wug'c'hkt g'gz vpi wkuj gt0'

É Cmuy "go r m{ ggu'vq'wug'vj g'gz vpi wkuj gt'kh'r quukdrg0'

É Uj qy "vj go "j qy 'hct'72"cpf "K22'hggv'ctg'uq'vj g{ 'ecp'ugg'j qy 'enqug'gz vpi wkuj gtu'pggf "vq'dg0'

É Rqlpv'qw'vj g'menpi 'r kp'cpf 'rtguwtg'i cwi g'qp'vj g'gz vpi wkuj gt0'

É Kt'qwt'eqo r cp{ 'wugu'qvj gt'vj cp'CDE'tcvgf 'hkt g'gz vpi wkuj gtu.'s wk'vj g'y qtngtu'qp'vj g'npf u'qh'hkt gu'vj cv' ecp'dg'r w'qw'y kj 'vj g'f khtgtp'v'gz vpi wkuj gtu'q'w'wug0'

É Cun'vj g'hmqy kpi "s wguvqpu<"

" É Y j cv'f qgu'RCUU'ucpf 'hqtA'

" É Y j cv'npf u'qh'hkt gu'ecp'q'w'r w'qw'y kj "c'Ercuu'C'hkt g'gz vpi wkuj gtA'

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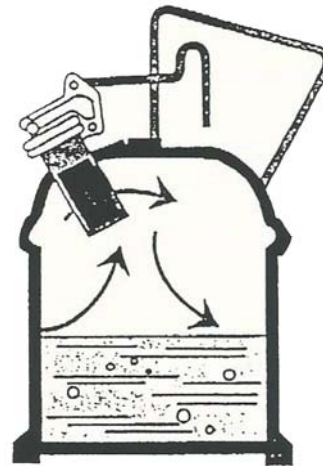




*Hrc o o cdrg'cpf'Ego dwu~~nd~~rg'Nks wky u''*

ÉÁ I cuqnp'g'j cu'c'hcuj r qkp'v'qh/67ÁH'cpf'f'kguñh'wgn'j cu'c'hcuj r qkp'v'qh/347ÁHVj g'f'ctg'dqjy 'hco o cñg'  
ñs w'f u'q'p'j g'y qtmukg0dw'f'kguñh'wgn'ku'eqpuk'gtg'f'ego dwuñdñg'kp'y g'uj q'r 0'

Ē Vj g'iks wƒ u'o wu'dg' uqtgf 'lp'rdgrf'uchw' 'ecpu.'y kj 'ur ctnlctgugtu'cpf 'ugm/emukpi 'hf u'gzegr v'ht' gz vgo gm' 'xkuequ'iks wƒ u'wej 'cu'GRF O 'cfj gukxg.'y j lej 'ecp'dg'uqtgf 'lp'v gk'qtki kpcnleqpvcpgtu'



ÉÁ Cny c{ u'nggr "c"htg"gz wpi wki gt "qp"] cpf "/y kj "gkj gt "c"D"qt "cp"CDE "tcwpi O'



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## *Hrc o cdng'cpf'Ego dwukdng'Nks wlf u'Vtckpki 'Vkr u'*

É Uj qy "c'uchgv "ecp"cpf "gxr rckp"y g'f hgtgpvhgcwtgu."uwej "cu'yj g'ur ctmtctt guvqt"cpf "ur tkpi "mqcf gf "rkf 0'  
Gxr rckp"j qy "f wtdng"y g'uchgv "ecp"ku0'

É Cun'yj g'hqmgy kpi "s wguvqpu<"

" É Y j { "f qgu"y gtg'pggf "vq'dg'i qqf "xgpvkrvqp"kp"ctgcu"y j gtg"y g'hs wlf u'ctg'uvqtgf A'

" É Y j { "ku"uo qnkp "cny c{u'r tqj kdkgf "ctqwpf "hrc o cdng"cpf "ego dwukdng"o cvgtkcu"cpf "hs wlf uA'

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\*\*\*\*\*F cvg\*\*\*\*\*Uki pcwtg"qh'Rt gugpvt"

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Cf f kkpccn"Vqr kcu"F kcuwugf <aa"

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## Qz{i gp/Cegv'rgpg'Vqtej 'Uchgv''

☞ **Oxy-Acetylene torches are used often in roofing to cut through heavy metal objects such as metal decking.**

ÉÁ Cegv'rgpg'ku'c'xgt { 'hco o cdr'g'i cu'o cf g'htqo 'cegvpqg0Cegvpqg'ku'c'xgt { 'hco o cdr'g'hs wkf''  
eqo o qp/n' 'hqp'f'lp'r tqf wew'hkng'r clpv'utkr r gt0'

ÉÁ Qz{i gp'ku'o kzgf'y kj 'cegv'rgpg'u'y cv'y g'cegv'rgpg'y km'dwo 'cv'c'j ki j gt'vgo r gtcwtg0Vj g'j ki j gt'  
vgo r gtcwtg'o cngu'ewwkp'i 's wkngt'cpf'o qtg'ghgevkxg0'

☞ **Setting up the oxy-acetylene system is a critical step for everyone's safety.**

ÉÁ Vj g'qz {i gp'cpf 'cegv'rgpg'cpm'u'o wuv'dg'r rceg'lp'cp'wr tki j v'cpf 'ugewt'gf'r quklqp0'

ÉÁ Kp'tcpukv'yj g'ecr u'o wuv'dg'lp'r rceg'qp'gcej 'dqwrg0'

ÉÁ **Do not travel with the gauges attached to the bottles!**

ÉÁ Fq'pqv'uo qng'qt'j cxg'qr gp'hco gu'lp'yj g'ctgc'qh'qz { /cegv'rgpg'lqdu0'

ÉÁ Pgxgt'wug'qkl'v'hwtdk'ecv'g'i cwi gu'qt'j cpf ngu.'cpf'nggr'qk'f' 'tci u'qww'qh'yj g'ctgc0Qz{i gp'tgcevu'  
xlqrgpv'f'y kj 'qkl'cpf'y km'dwo 0'

ÉÁ Kpur gev'yj g'gs wkr o gpv'v'q'o cng'uwtg'k'ku'lp'i qqf'y qtnkpi 'qtf gt'cpf'yj cv'yj g'j qugu'f'q'pqv'j cxg'j qrgu'  
kp'yj go 0'

ÉÁ Pgxgt'wug'qz {i gp'v'q'drny 'f'k'v'qhh'qh'f' qwt'eqvj gu'qt'f' qwtugr0Vj g'f'kv'o c { 'r gpgt'cv'g'f' qwt'unlp'wpf gt'  
vj g'j ki j 'r tguuwtg0'

☞ **When using an oxy-acetylene system, the valves on each bottle should not be turned more than one and one-half times.**

ÉÁ Klc'ur gekn'y tpej 'ku'pggf gf 'qp'yj g'cegv'rgpg'dqwr'g'cxg'k'lp'r rceg'qp'yj g'uvgo 'kp'ecug'yj gtg'ku'cp''  
go gti gpe { 'cpf'yj g'dqwr'pggf u'v'q'dg'uj w'qh0'

ÉÁ S wlem'f'qr gp'gcej 'dqwr'cpf'equg'yj go 0Vj ku'ku'ecmgf 'Setcenkpi \$'cpf'k'engcpu'qw'yj g'xcxg'qh'cp { ''  
f gdtku00 cng'uwtg'yj g'j qugu'ctg'pqv'eqppgevgf'yj gp'yj ku'ku'f'qpg0'

ÉÁ Wug'qpn'f'c'ur ctmi' gpgt'cv'qt'v'ki j v'yj g'vqtej 0'

ÉÁ Cny c { u'ki j v'yj g'cegv'rgpg'hkuv'cpf'cf lwuv'yj g'hco g'y kj 'vj g'qz {i gp0'

ÉÁ Y j gp'hkuj gf.'uj w'v'yj g'xcxgu'qh'cv'yj g'dqwr'gu'cpf'r wti g'yj g'hkpu'qh'cp { 'i cugu0'

☞ **Personal protective equipment (PPE) is also required when torch cutting with oxy-acetylene.**

ÉÁ O cng'uwtg'f' qw'wug'r tqr gt'g { g'r tqv'g'v'qp'yj kj 'eqtt gev'rgpu'uj cf gu0Cum'f' qwt'uwr gt'xkuqt'kh'f' qw'f'g'pqv'  
uwtg'yj j cv'uj cf g'qh'rgpu'v'q'wug0'

ÉÁ Y gct'c'hqpi 'ungxgf'uj kt'v'cpf'ngcv'gt'i m'xgu0'



*Qz { i gp / Cegw ɪ p p g ' V q t e j ' U c h g w ' V t c k p k p i ' V k r u ' }*

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## Rtqr cpg'Uchgv''

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Rtqr cpg."qt'hs wghkf'r gvtqrwo 'i cu'NRI +.ku'i cu'vj cv'ku'eqqngf.'eqo r tguugf.'cpf'uvqtgf'kp'r tguuwtk gf'"  
eqpvckpgtu0Vj ku'r tgeguu'cmqy u'hqt'i tgcvc'co qwpvu'qh'hvgn'vq'dg'uvqtgf'kp'c'uo cmleqpvcpgt.'dw'cuq'etgcvgu"  
uki pklcepvj c| ctf u0"

☞ **ALPG cylinders come in a variety of sizes, and choosing the right size is important."**

ÉÁ Vj g'o quv'eqo o qp'uk gu'kp'vj g'tqqhkp'kp'f wut { 'ctg'42/. '62/. 'cpf '322/r qwpf 'e{ rkp'f gtu0

ÉÁ K' { qw'ugrgevc' { rkp'f gt'vj cv'ku'vq'uo cm'hqt' { qwt' lqd. 'vj g'vcpm'o c { 'htquv'cpf 'f getgcug'vj g'co qwpv'qh'  
r tqr cpg'dgkpi 'tgrgcugf 0Vj ku'ku'o quv'hvgn' 'vq'j cr r gp'f wt'kp' 'vqtej kpi 'cr r rlec'vqpu'kp'eqrf gt'enko cvgu0

ÉÁ K'c'vcpm'f qgu'htquv'vj gp'gv'k'vj cy 'pcwtcm' (0F qp)'vqtej 'vj g'e { rkp'f gt'kp'qtf gt'vq'f ghtquv'k'dgecwug'  
{ qw'ecp'y gcngp'vj g'uj gmi'qh'vj g'eqpvckpgt'y j kej 'ecp'ngcf 'vq'cp'gZR rqukqp0

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☞ **Make sure that. all cylinders are chained or secured in an upright position.**

ÉÁ F q'pqv'cmqy 'vj g'e { rkp'f gtu'vq'x { 'qp'vj gk'ukf gu0Nks wkf 'o c { 'gpvgt'vj g'j qug'cpf 'ecwug'r tqdrgo u'kp'vj g'  
xcr qt'y kj f tcy cnlu' ugo 0

ÉÁ I cu'e { rkp'f gtu'ecp'dgeqo g'f cpi gtqwu'o kuukgu'h'vj g'ugcn'dgwy ggp'vj g'ecukpi 'cpf 'vj g'xcrk'ku'dtqngp0

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☞ **When lighting a torch, use a spark generator.**

ÉÁ F qp)'wug'o cvej gu'qt'rk'j vgtu'vq'rk'j v'vqtej gu0

ÉÁ Cpf 'pgxgt'uo qng'kp'cp'ctgc'y j gtg'vj gtg'ku'r tqr cpg'i cu0

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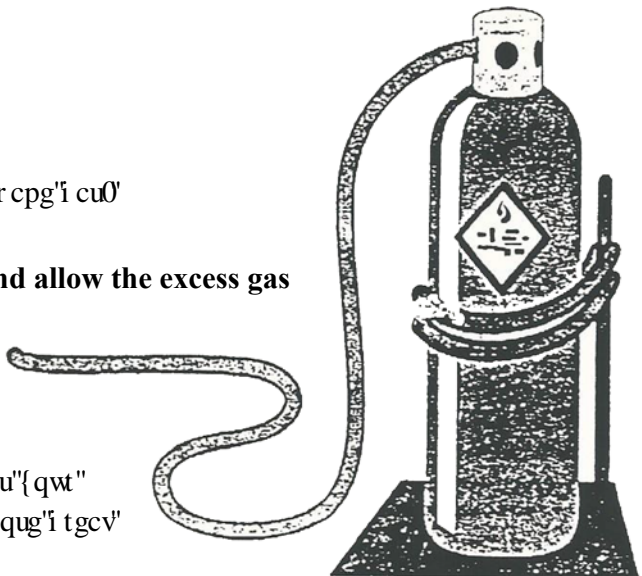
☞ **When shutting off the gas, close the regulator and allow the excess gas in the hose to burn off.**

Rtqr cpg.'cu'y gmi'cu'cp' { 'qvj gt'eqo r tguugf 'i cu'f go cpf u' { qwt'  
tgur ge00 kuukpi 'c' { rkp'f gt'qt'cmqy kpi 'kv'vq'hcmlecp'r qug'i tgcvc'  
f cpi gtu'vq' { qw'cpf' { qwt'eq/y qtngtu0

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*Rt qrcpg'Uchgv'Vtclpki 'Vku''*

É F go qpwtcv'j g'eqttge'v' c { 'v' r w'qp0'qr gp.'cpf 'enqug'c'tgi wrcvqt0'

É Cunt'j g'hqmqy kpi 's wguvqpu<

" É""Y j { 'ecp)' { qw'uo qng'y j gtg'r gqr ng'ctg'wukpi 'r tqrcpg'i cu.'k'k'u'lp'c'e { rpf gt A'

" É""Y j { 'ecp)' { qw'wug'c'vqtej 'v'j cy 'c'e { rpf gt A'

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## *Vqtej /Crr rkgf 'U{wgo u'*

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☞ **Be careful when lighting a torch, and when handling a lighted torch.**

ÉÁ Ej genlcm'eqppgevkpu'hqt'igcmi'dghqtg" { qw'uwtv'uq"vj cv'i cu'y knlpqv'guecr g'cpf "etgcvg"cp"wpnpqy p"  
hktg'j c| ctf 0'

ÉÁ Nki j v'vj g'vqtej 'y kj "c'ur ctnli gpgtcvqt."pqv'c'o cvej "qt'c'hki j vgt0'

ÉÁ K'vj g'vqtej 'ku'f guki pgf "vq'dg'rc'kf 'f qy p'y j kg'rk'v'o cng'uwg'vj g'uwthceg'y j gtg" { qw'lc { 'kv'ku'pqp/  
hrc'o o cdrg0'

ÉÁ P gxgt'igc'xg'c'hki j vgf "vqtej 'wpcwpgf gf 0'

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☞ **Do not torch directly to a flammable substrate.**

ÉÁ Uwthcegu'uwej "cu'r n' y qqf "qt'y qqf "hkdgt'pggf "vq'dg'eqxgtgf'y kj "c'pqp/hrc'o o cdrg'o cvgtkcr'uwej "cu'c"  
dcug'r n' "qh'cur j cm'hgn'dghqtg'vqtej kpi "vj g'o qf khgf "dkwo gp'o go dtcpg0'

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☞ **When working on existing structures, especially those with wood decks, use extra caution at wall terminations and around projections.**

ÉÁ F wuv'hkp'v'qkn'cpf "i tgcug'ecp'cm'ceewo wrc'w'lp'vj gug'ctgcu'cpf "o c { "dg'gcukn { 'ki pkgf "d { 'vj g'vqtej 0'  
P gxgt'vqtej "kp'vq'cp'ctgc'vj cv' { qw'ecppqv'engctn' 'ugg0'

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☞ **It's essential to perform a fire watch for at least one hour after the last torch is turned off.**

ÉÁ Hktgu'y knlq'hgp'uo qrf gt'hqt'cm'j qwt'qt'o qtg'dghqtg'dwtukpi "kp'vq'hrc'o gu0'

ÉÁ C'vj qtqwi j "kp'ur gevq'p'cdq'xg'cpf "dgm'y "vj g'f genli'j qwf "tgxgc'ncp { "j qv'ur qwu'lp'vj g'tqqh0'

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☞ **Wear proper PPE when using a torch.**

ÉÁ Ngcvj gt'i nq'xgu'y kj "i cwpw'gwu"

ÉÁ C'Lqpi /urgxgf "uj ktv"

ÉÁ G { g'r tq'vgevq'p"

ÉÁ Uwtf { "y qtnldqqw"

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Htqo "hki j kpi "cpf "j cpf r'kpi "vj g'vqtej "vq'rc { kpi "vj g'j gcvgf "u { wgo ."vqtej /crr rkgf "u { wgo u'r t'gugpv'ugt'kquu"  
j c| ctf u0' [ qw'cpf "cm'qh" { qwt'eqy qtngtu'pggf "vq'dg'gzv'tgo gn { "ectghw'uq'vj cv' { qw'f qp" e'dwo " { qwtugr'xgu'qt"  
ecwug'ugt'kquu'r tqr gtv { "f co ci g0'

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## Vqtej /Crrngf 'Ufugo u'Vtckpki 'Vku'""

É F go qpwtcv'j g'iki j vpi 'r tqegf wtg0

É Gzr mlp'y g'tgur qpukdkkgu"qh'y g'htg'y cvej 0'

É Cun'y g'hmqy kpi "s wguvqpu<

" É""Y j cv'y knj crr gp'kh' { qw'iki j v'y g'vqtej "cpf 'y gtg'ctg'igcmi'lp'y g'j qug'y cv' { qw'f kf p)'pqvlegA'

" É""Y j cv'ecp'tguw'htqo "wpcwgp gf 'j qv'ur qu'lp'y g'tqqhA'

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P qvgu<

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# TOOLBOX TALKS

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## J c/ctf 'Ego o wpkcvkqp'

☞ **The hazard communication standard is an employee right-to-know law.**

ÉÁ [ qw'pggf "q'hpqy 'y j cv'ej go kecn'cpf 'tqqhpi 'r tqf wev"  
ctg'j c| ctf qwu'q' { qwt'j gcnj . 'cpf 'hpqy 'j qy "q'uchgi wctf ""  
{ qwtugh'ci cku'v'j go 0'

ÉÁ [ qwt'go r m'j { gt'j cu'c' y tkwgp'j c| ctf 'ego o wpkcvkqp' r qrk' { ""  
cpf 'r tqi tco 'y cv'kpenw' gu'j g' hmqy kpi 'kgo u'<

ÉÁ Ej go kecn Rtqf wev' kpxgpvt { 'Nku'

ÉÁ O cvgtkn' Uchgv' 'F cv' 'Uj ggu' \*O UF U'<

ÉÁ Ncdgkpi 'kphqto cvkqp'

ÉÁ Vtclpki 'Tgs wktgo gpw'cpf 'Tgeqtf u'

ÉÁ Vj ku'o wu'dg' ngr v'cv' { qwt' y qtmukg 'uq'j cv' { qw'j cxg' ceeguu' "  
q'k'cv'cm'ko gu0'

ÉÁ Cuni' { qwt' uwr gtxkqt 'qt' hqtgo cp'kh' { qw'j cxg'cp' { 's wguvqpu'tgi ctf kpi "  
J c| ctf qwu'o cvgtkn0'

"

☞ **Chemical/Product Inventory List**

ÉÁ C'ku'qh'cm'j c| ctf qwu'ej go kecn'uj qwf "dg'ngr v'y kj "y g'y tkwgp' r qrk' { "cpf 'O UF Uu0"

☞ **Material Safety Data Sheets (MSDS)**

ÉÁ C'O UF U'o wu'dg' r tgu'p'v'ht' "gcej' j c| ctf qwu'ej go kecn'qt' r tqf wev'qp' uksg0'

ÉÁ Hqt' o kzwatgu . 'y j g'O UF U'y kn'kf gp'v'h' { "cm'qh'j g'ej go kecn'y kj kp'j g'o kzwatg. 'y g'o kzwatgu' "  
ej ctcevgtk'v'ku' . 'cpf' cp' { 'ko r qtc'p'v'j c| ctf 'kphqto cvkqp0'

"

☞ **Labeling Information**

ÉÁ C'rdgn'o wu'dg' ch'kzgf "q'gcej "eqp'v'kpgt' qh'c'j c| ctf qwu'o cvgtkn'kf gp'v'h' { kpi 'y j g'pco g'qh'j g' "  
r tqf wev. 'y j g'pco g'cpf 'cf f tgu'qh'j g'o cp'w'cewtgt. 'cpf' j c| ctf 'kphqto cvkqp0'

ÉÁ kphqto " { qwt' uwr gtxkqt 'kh'c' rcdgn'ku'pq'v'qp'c'eqp'v'kpgt. 'cpf' "f q'pq'v'wug'k'v'p'v'k'ku'tgr n'egf "qt" "  
tgrcdgrgf 0'

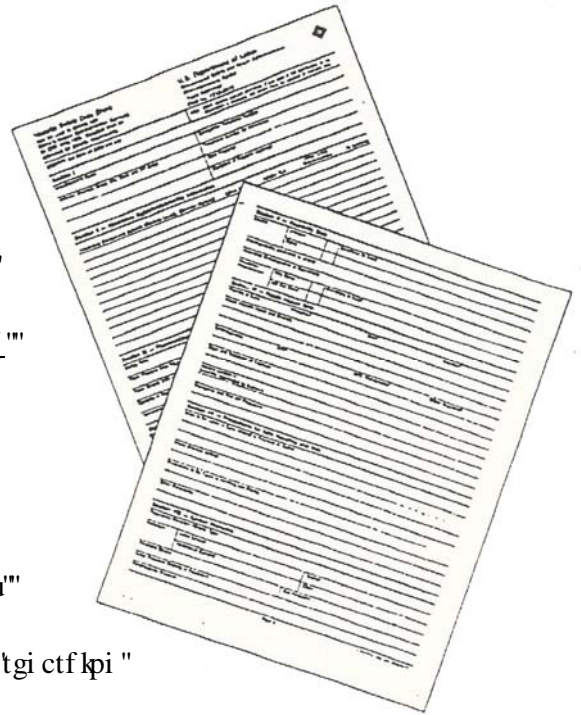
☞ **Training Requirements**

ÉÁ Vj g'QUI C'uc'p'f ctf 'tgs wktgu' { qw'q' dg'v'clp'gf 'uq'j cv' { qw'j cxg' hwm'hpqy ngf i g'qh' { qwt'go r m'j { gt'au' "  
y tkwgp' r tqi tco 'cpf' cm'j c| ctf qwu'o cvgtkn'cv' { qwt' y qtmukg0'

ÉÁ O cng'uw'g'y cv' { qw'wpf gtuc'p'f 'y j g'v'clp'kpi " { qwt'geg'kg. 'cpf' 'y j cv' { qw'hpqy 'j qy "q'k'p'f 'kphqo 3cvkqp' "  
kp'j g'O UF Uu0'

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## *J c/ctf'Ego o wplecvkqp'Vtcklpi'Vku''''*

É J c xg'c"eqr { "qh'y g'eqo r cp { u'y tkwgp'j c| ctf "eqo o wplecvkqp'r qrk { "cxckrdng0'

É J c xg'cp'O UF U'cxckrdng"q'uj qy "go r m { ggu0'

É O cng'uwg'yj cv'yj g { "mpqy "y j gtg'yj g'O UF Uu'cpf "yj g'eqo r cp { "j c| ctf "eqo o wplecvkqp'r qrk { "ctg'hqecvgf 0'

É Cunt'yj g'hqmqy kpi "s wguvqpu<

" É""Y j cv'kphqto cvkqp'f q" { qw'hkp'f "qp'r tqf wev'rdgnaA'

" É""Y j cv'uj qwf " { qwf q'k" { qw'hkp'f "cp"wp'rdngf "eqp'vkgp'gtA'

" É""Y j gp'ecp" { qw'hqmq'cv'yj g'O UF UuA'

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## O c v g t k n U c h g v ' F c w ' U j g g v ' \* O U F U + '

As part of the employee right-to-know law your employer is required to provide MSDSs for every hazardous chemical substance used at the company.

ÉÁ O U F U u ' y k n i x c t { ' d { ' o c p w h c e w t g t . ' d w ' y j g { ' y k n i c m i j c x g ' c v h g c u v ' g k i j v u g e v k p u 0 ' }

30 Á V j g ' r t q f w e v ' y k n i d g ' k f g p w h g f ' d { ' k u ' u e k p w h e ' p c o g ' c p f ' k u ' e q o o q p ' p c o g . ' h ' k ' j c u ' q p g 0 ' }

ÉÁ G o g t i g p e { ' r j q p g ' p w o d g t u ' y k n i d g ' r k u g f . ' k p ' y j k u ' u g e v k p . ' c m p i ' y k j ' y j g ' p c o g ' c p f ' c f f t g u u ' q h ' y j g ' o c p w h c e w t g t 0 ' }

40 Á V j g ' j c l c t f q w u ' k p i t g f k p v u ' y k n i d g ' k f g p w h g f . ' c m p i ' y k j ' l p h q t o c v k p ' q p ' j q y ' r p i ' { ' q w ' e c p ' d g ' g z r q u g f ' v q ' y j g u g ' l p i t g f k p v u 0 ' }

50 Á V j g ' e j c t c e v g t k u l e u ' q h ' y j g ' o c v g t k n i c t g ' r k u g f 0 ' }

ÉÁ E j g o l e c n i e j c t c e v g t k u l e u ' c t g ' k g o u ' u w e j ' c u ' d q k k p i ' r q k p v c p f ' h r u j ' r q k p 0 ' }

ÉÁ R j { u l e c n i e j c t c e v g t k u l e u ' l p e n f g ' c r r g c t c p e g . ' e q n q t . ' c p f ' q f q t 0 ' }

60 Á H k g ' c p f ' g z r m u k a p ' f c v c ' l p h q t o c v k p ' k u ' r t q x k f g f ' q p ' j q y ' v q ' g z v k p i v k u j ' h k g u ' e c w u g f ' d { ' y j g ' o c v g t k n i 0 ' }

70 Á C p q v j g t ' u g e v k p ' r t q x k f g u ' l p h q t o c v k p ' k f g p w h g f l p i ' e j g o l e c n i ' y c v ' e c p ' d g ' w u g f ' c p f ' u x q t g f ' v q i g y j g t . ' c p f ' u w d u c p e g u ' y j c v o w u v ' d g ' n g r v c r c t v 0 ' V j k u ' u g e v k p ' k u ' e c n g f ' \$ t g c e v k x k f ' f c v c \$ 0 ' }

80 Á l p h q t o c v k p ' c d q w ' j g c n j ' j c l c t f u ' k u ' k p ' k u ' q y p ' u g e v k p 0 ' }

ÉÁ V j k u ' u g e v k p ' y k n i g z r m k p ' y j g ' u k i p u ' c p f ' u { o r v q o u ' q h ' q x g t g z r q u w t g ' u q ' { ' q w ' y k n i h p q y ' j q y ' v q ' v g m i ' y j g p ' v q q ' o w e j ' q h ' c ' u w d u c p e g ' k u ' l p ' { ' q w t ' u { u g o 0 ' }

ÉÁ [ q w ' y k n i c n u q ' d g ' i k x g p ' h k u v c k f ' l p h q t o c v k p 0 ' C r y c { u ' h q m i j g t g ' d g h q t g ' u w i i g u v k p i ' c p { ' h k p f ' q h ' h k u v c k f . ' d g e c w u g ' y j c v o c { ' d g ' y j g ' d g u v ' t g c v o g p v h q t ' q p g ' u w d u c p e g ' o c { ' d g ' j c t o h w i ' y k j ' c p q v j g t 0 ' }

90 Á Q p g ' u g e v k p ' y k n i r t q x k f g ' u g r u ' v q ' h q m y ' l p ' y j g ' g x g p v ' q h ' c ' u r k n i q t ' h g c n i c p f ' y k n i l p e n f g ' y c { u ' v q ' u x q t g ' c p f ' f k u r q u g ' q h ' o c v g t k n i 0 ' }

0 Á H k p c m f . ' l p h q t o c v k p ' k u ' i k x g p ' e q p e g t p k p i ' e q p v q n i o g y j q f u . ' u w e j ' c u ' y j g ' v { r g u ' q h ' r g t u a p c n i r t q g e v k x g ' g s v k r o g p v q t ' x g p v k r c v k p ' u { u g o u ' v q ' w u g 0 ' }



*O c w t k n U c h g v ' F c x ' U j g g v \* O U F U + V t c p k p i ' V k r u ' " "*

P q v g u < "

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**ALL ATTENDEES MUST SIGN**

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## Dwt pu'lt qo 'J qv'Cur j cn'ht 'Eqcn Vct 'Rkæj "

☞ **Hot Asphalt or coal tar pitch burns are painful and often disfiguring.**

ÉÁ J qv'uwth'y kn'ukem'q'cm quv'cp { 'uwthceg. 'lpenmf kpi 'hguj 0'

ÉÁ K'eqp'kwgu'q'dwtp'yj g'uwthceg'k'j cu'ncpf gf "qp'wv'k'k'j cu'eqqrgf 0'

ÉÁ Vj gug'dwtpu'ctg'xgt { 'r clphw'cpf 'y j g { 'ctg'gz vgo gn { 'f k'hewn'v'q'engcp0'

"

☞ **Wearing the appropriate personal protective equipment (PPE) will help prevent burns.**

Y j gp { 'q'w'y qtn'y kj 'j qv'uwth' { q'w'uj q'w'f 'y gct<"

ÉÁ Nqpi /urgxgf 'uj k'u'yj cv'dwqp'qxgt 'y j g'ewhu'qh'i rxgu="

ÉÁ Nqpi 'ewh'guu'r cpw'yj cv'eqo g'qxgt 'y j g'v'q' u'q'h'qxgt/vj g/cp'm'eqpwt'w'k'p'dqqw="

ÉÁ J ctf 'j cw'cpf 'hceg'uj k'rf u. 'hqt 'y j q'qr gtcv'ngwgu'cpf 'hwi i gtu="cpf "

ÉÁ cv'hgcuv'i qi i rgu'hqt 'y j g'o cr r gtu0'

"

☞ **It's important to understand how to respond to burns.**

ÉÁ Y j gp 'y j g'j qv'ku'ukn'eqo r r'vgn { 'ks w'f 'em'y kpi 'ecp'dg'tgo qxgf 's w'k'nm { . 'dw'qpeg'k'j cu'dgi wp'v'q" j ctf gp 'f q'pqv't { 'v'q'tgo qxgf 'y j g'cur j cn'ht 'em'y kpi 'cv'cm'

ÉÁ Eqqn'yj g'dwtp'ctgc'y kj 'y cvgt'qpn { 'v'j cuvgp'yj g'j ctf gpkpi 'cpf 'eqqn'kpi 'qh'yj g'j q'0'

ÉÁ P g'xgt 'cr r n { 'q'k'p'o gp'0'K'y kn'qpn { 'j cxg'v'q'dg'r clphw' { 'tgo qxgf 'cv'yj g'j qur kcr0'

ÉÁ J qv'dwtu'ctg'wuwcm { '4<sup>pf</sup> 'qt '5<sup>if</sup> 'f gi tgg'dwtpu. 'cpf 'ecp'dg'h'g/vj tgcvgpkpi 0'

"

☞ **The seriousness of a burn is a key in determining appropriate treatment.**

ÉÁ C 'h'k'uv'f gi tgg'dwtp'r tqf w'gu'qpn { 't'gf pguu'cpf 'uy gmkpi 'ó'h'k'ng'c'uwpdwtp0'

ÉÁ C 'ugeqpf 'f gi tgg'dwtp'ku'lpf k'cvgf 'd { 'drkngtkpi 0'

ÉÁ C 'y j k'f 'f gi tgg'dwtp'y kn'uj qy 'kugr'h'k'p'yj g'hqto 'qh'f ctm'ej cttgf 'unkp0'

ÉÁ O gf k'c'n'c'wgp'k'p'o wuv'dg'u'qwi j v'ko o gf k'c'vgn { 'hqt 'g'k'y gt '4<sup>pf</sup> 'f gi tgg'dwtpu'yj cv'eqxgt 'c'h'rti g'ctgc'qh' y j g'dqf { 'q'cp { 'ctgc'gpego r cuukpi 'y j g'j gcf . 'i gpkcnu. 'qt 'gz vgo k'kgu+ 'qt 'cp { '5<sup>if</sup> 'f gi tgg'dwtpu0'

"

☞ **If medical attention has been called:**

ÉÁ M'egr 'y j g'r gtuqp'cu'eqo hqt vcdng'cu'r quukdng'y j k'g'cp'co dw'c'peg'ku'ecmgf 0'

ÉÁ Y cvej 'hqt 'uki pu'q'h'uj qen'ó'f k'c'v'gf 'r w'k'u'r crg. 'emco o { 'unkp'uj cm'y . 'ktgi w'rt 'dtgc'y kpi =cpf 't'cr k'f " y gcn'r w'ug'ó'cpf 'gr'xcv'g'yj g'r gtuqp'u'h'ggv'h'yj gug'uki pu'ctg'r t'gugp'0'

"

"





*Dwt pu'ht go 'J qv'Curj cn'qt 'EqcnVct 'Rkej 'Vtckpki 'Vkr u'""*

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# TOOLBOX TALKS

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## J qv'Cur j cn'Rt qvgevkqp "

☞ **Personal protective equipment (PPE) should always be worn when working with hot asphalt. Full PPE consists of:**

③ Á Nqpi 'r cpw'y kj 'pq'ewhu'y c'eqxgt'yj g'qr u''  
qh'yj g'dqqv.'''

④ Á C'mpi /ungxgf 'uj kv.'dwwqpgf 'cv'yj g'ewh'cpf ''  
y kj kp'qpg'dwwq'qh'yj g'eqmct.'''

⑤ Á Dqqw'y kj 'vj km't wddgt'qt'eqo r qukg'uqrgu.'''

⑥ Á I mxgu'y kj 'upwi /hkwkpi 'ewhu.'''

⑦ Á I qi i ngu'qt'uchgv 'i ncuugu.'cpf ''

⑧ Á C'hwnhceguj kgrf 'cpf 'c'j ctf 'j cv'y j gp''  
vgpf kpi 'c'ngwrg0''

☞ **Safe work practices are as important as proper PPE selection.**

ÉÁ Tgo go dgt'q'ej gen'cmj qvj cpf nki 'gs wkr o gpv'cpf 'o cng'uwg'kv'kup)'y gv'qt'le{.'dgecwug'y cvgt'ecp"  
ecwug'y qv'cur j cn'vq'ur cwgt0'

ÉÁ Megr 'ngwrg'rkf u'emugf 'gzegr v'y j gp''{ qw'ctg'unko o kpi 'vj g'cur j cn'qt'cf f kpi 'dkwo gp0'

ÉÁ Megr 'vj g'hkngt'j qrgu'eqxgtgf 'y j gp''{ qw'tg'pqv'hknp 'vj g'hw i gt0'

ÉÁ Vwtp'o qr 'ectw'cpf 'dwengw'qxgt'cv'yj g'gpf 'qh'yj g'f c{0'

ÉÁ Ur kp'o qr u'qw'cv'yj g'gpf 'qh'yj g'f c{0'

ÉÁ Y j gp'dwengw'ctg'uwem'y kuv'q'htgg'yj go 0F q'pqv'r wnt'qt'lgtn'yj g'dwengv.'qt'yj g'j qv'cur j cn'o c{ "  
ur ncu j 0'

ÉÁ Ectt{ 'j qv'dwengw'qp'yj g'f qy pj km'ukf g'qh'unqr gf 'tqqhu0'

ÉÁ F q'pqv'hkndwengw'o qtg'yj cp'yj tgg/hqwtj u'hwn0'

ÉÁ Dg'ectghw'pqv'q'uvg' 'kp'htguj'j qv'qt'qp'cur j cn'yj cv'j cu'tgegpn' 'dggp'y gwgf.'dgecwug'cur j cn'ku"  
gzv'tgo gn' 'unkr r gt{ 'kp'dqvj 'qh'yj gug'eqpf kkpup0'

☞ **Quick response with first aid can ease the damage burns can cause.**

ÉÁ Ecmihqt'go gti gpe{ 'ugt'xlegu'ko o gf kcvn{0'

ÉÁ Eqqn'yj g'dwtpgf 'ctgc'y kj 'y cvgt0Do not cr r n' 'dwtp'etgco u'qt'ucrkgu0'

ÉÁ Do not'tgo xqg'dkwo gp.'cur j cn'qt'emvj kpi 'htqo 'vj g'dwtpgf 'ctgc0'





*J qv'Curj cn'Rtqvgevkp 'Vtckpkpi 'Vkr u'""""*

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# TOOLBOX TALKS

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## J qv'Cur j cn'Uchgv''

☞ **The first line of defense against hot asphalt is personal protective equipment (PPE).** "



**Eye protection is critical.**

ÉÁ O cnv'uwg'i ncuqu'qt'i qi i ngu'ctg'CP UKtcvgf "cpf "

ÉÁ Kf' qw'ctg'c'ngwgo cp. 'vj gp'y gct'c'hceg'uj kgrf "cwcej gf "

**Your shirt must have long sleeves that cover the cuffs of your gloves.**

ÉÁ Dwwqp'vj g'vqr "qh" qwt'uj kv'vq'y kj kp"qpg"dwwqp"qh'vj g" eqnct0'

**One of the key parts of your PPE is your gloves.**

ÉÁ Eqwqp'i mxxgu'ecp'r tqxkf g'o kpk cnr tqvgevqp'dw' ncvj gt'r tqxkf gu'lw gtlqt'r tqvgevqp0P gxgt'y gct'twddgt' i mxxgu'y j gp'j cpf rkp' j qv0'

ÉÁ O cnv'uwg'vj gtg'ctg'pq'i cwpv3gw'qp" qwt'i mxxgu0'

ÉÁ Vwendvj g'ewhu'qh'vj g'i mxxgu'wvf gt'vj g'dwwqp'gf "ewhu'qh" { qwt'uj kv0' "

**Pant legs should come over the tops of your work boots, and be cuffless.**

**Your work boots should have over-the-ankle leather uppers and heavy soles.**

☞ **Use of good work practices will prevent any avoidable spilling and spattering of hot asphalt.**

ÉÁ Mgr 'nxi i gtu'cpf 'ngwgu'htgg'htgo "o qkwtg'uq'vj g'cur j cn'y kn'pqv'ur cvgt0'

ÉÁ F q'pqv't { "v'r wmdwengv'qh'cur j cn'qh'qh'vj g'tqqh'kh'vj g' { 'ctg'uwem=vy kv'vj go 'htgg'uq" { qw'f q'pqv' ur cuj "vj g'j qv0' "

☞ **Keeping the asphalt at its optimum temperature, and standing upwind of the kettle, lugger, or bucket will minimize your exposure to asphalt fumes. Although they are not dangerous asphalt fumes can be irritating.**

O vej "qh'vj g/f cpi gt'cuqekcvf "y kj "j qv'cur j cn'ecp'dg'cxqkf gf "y kj "uchg'y qtnr tcevegu0Wukpi "cr r tqr tkvg" RRG'y kn'o kpk k g'vj g'r qvqv'cn'ht'kplwt { 'htgo "qecukqp'cn'ur cuj kpi "qt'ur cvgtkpi "qh'j qv0'



"

## *J qv'Curj cn'Uchgv'Vtcklpi 'Vku'""*

É Uj qy "f khtgpnv\ r gu'qh'RRG"cpf "gzr mlp"j qy "gcej 'r tqxkf gu'r tqvgevkp"tqo "j qv'cur j cn0'  
É Uj qy "go r m{ ggu'y j gtg'vq'hpf "y g'qr vko wo "vgo r gtcwtg"\*GXV+"qp"y g'cur j cn'hgi "rdgr0'  
É Uctv'yj g'vcklpi "uguukqp"ftguugf "kpcr r tqr tlcvgu\ 'hqt'y qtnkpi "y kj "j qv'cpf "cun'y g'etgy "vq'kf gpvkh{ "  
y j cv'u'y tqpi "y kj "{ qwt'ugrgevkp"qh'RRG0'  
É Cuni'y g'hqny kpi "s wguvkpu<  
" É""Y j { "uj qwf "{ qw'o cng'wutg'vq'y gct 'i rxgu'y kj qw'i cwpvrguA"  
" É""Y j cv'hkpf u'qh'y qtnr tcevegu'y knr txgpnv'ur km'cpf "ur cwtu'qh'j qv'cur j c3vA"  
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### ALL ATTENDEES MUST SIGN

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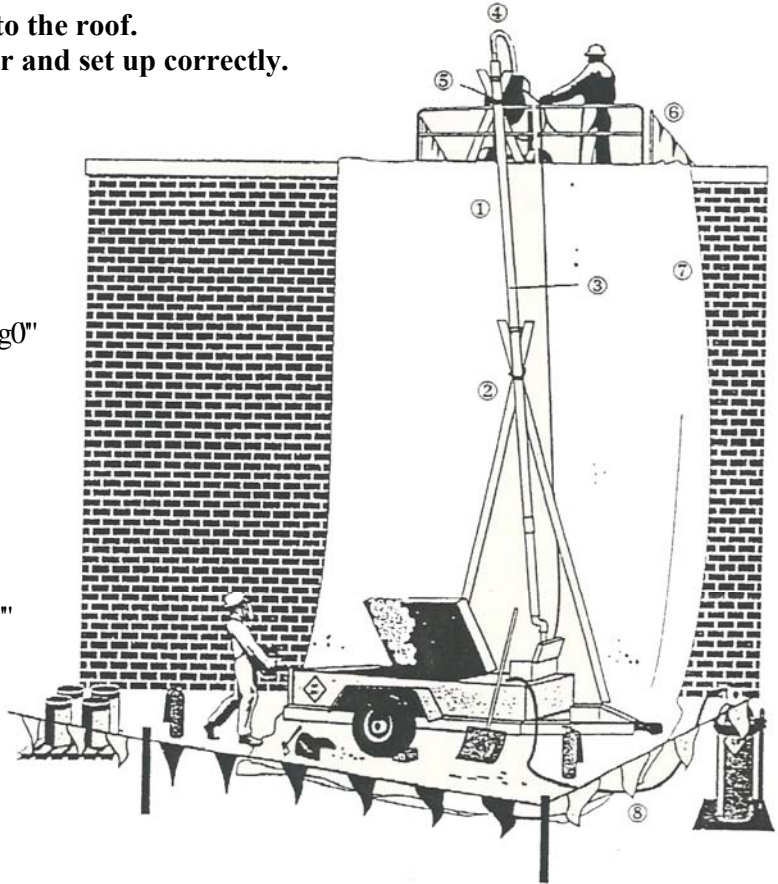
# TOOLBOX TALKS

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## Vj g'J qv'Rkr g''

The hot pipe moves the hot from tht: kettle to the roof.  
If must be maintained in good working order and set up correctly.

- 30 J qv'r kr gu'uj qwr f "dg'ugv'wr "cu'xgtv'ecm' "  
cu'r quukdrg"vq"cxqkf "dqy kpi 0"
- 40 A Rkr gu'vj cv'o wuv'dg'gz v'gpf gf "c'uwduxcp'vkn'"  
f kuxcepg'uj qwr f "dg'uwr r qtvgf 0"
- 50 A Kpuwv'v'pi 'vj g'r kr gu'j gr u'v'q'o clp'vckp'vj g'"  
r tqr gt "vgo r gtcwtg"cpf "eqpvtqn'gz egui'hw o g0"
- 60 A Vj g'gpf "qh'vj g'r kr g'uj qwr f "dg'eqppgevgf '"  
vq'c'342/f gi tgg'grdqy 'r kr g'cpf "hgzkdrg'"  
f kuej cti g'j qug0"
- 70 A Vlg'qh'vj g'r kr g'v'q'c'i wctf tckl'qt "qj gt"  
uwr r qt'v'ko o gf kcvgn' "chgt'r nckpi 'k'qp'"  
vj g'tqqh0"
- 80 A I wctf tckl'uj qwr f "dg'gtgevgf "cv'hgcuv'6'hggv'"  
\*304'o +qp'gk'j gt 'ukf g'qh'vj g'r kr gr'p'g0"
- 90 A K'r quukdrg. "f tcr g'c'vctr "qp'vj g'ukf g'qh'vj g'"  
dwkf kpi "pgz'v'q'vj g'r kr g0"
- 0 A Dcttkecf g'vj g'ctgc'dgrqy "vq'r t'gxgpv'"  
r gqr rg'htqo 'y cmkpi 'lpv'vj g'ctgc0"



Cffklqpcmf <"

☞ **Make sure the pipes are clean and dry and all unions are secure and in good condition.**

☞ **Always disconnect pipes before cleaning them with a propane torch. If you heat them when they're connected the pressure will build up and the pipes can explode.**

J qv'r kr gu'grko kpcv'vj g'r tqdrgo "qh'j qy "vq'i gv'j qv'cur j cn'v'q'vj g'tqqh's w'ecm' 0Vj g'u' ugo 'y kn'r tqxkf g'vj g'"  
co qwpv'qh'cur j cn'f' qw'pggf. 'y j gp'f' qw'pggf 'k'v' kj "c'o k'pko cn'co qwpv'qh'j cuurg00 clp'vckp'vj g'r kr gu'y gr'ncpf '"  
o cng'uwtg'vj g' "ctg'ugewtgn' "eqppgevgf "vq'gcej "qj gt "cpf "vq'vj g'i wctf tckl'qp'vj g'tqqh0K'f' qw'f'q'vj gug'vj kpi u."  
cpf "hqmry 'vj g'qj gt "kgo u'rkuvf "lp'vj ku'Vqqrqz "Vcm'vj gp'f' qw'y kn'dg'cdrg'vq'i gv'cm'qh'vj g'j qv'vj cv'f' qw'pggf '"  
y j kg'o k'pko k' kpi 'vj g'tkum'qh'r gtuqpcn'kplwt' "qt'r tqr gtv'f' co ci g0"



"

***Vj g'J qv'Rkr g'Vtckpłpi 'Vkr u'""""***

É' Uj qy "vj g'etgy "j qy "vj g'r kr gu'ctg"cuugo drgf "cpf "vkgf "qhh'vq'vj g'i wctftckl'qp'vj g'tqqh0'

É' F go qpwtcvg'j qy "vq'r tqr gtn' "engcp" c'ugev'kp'qh'r kr g0'

É' Cun'vj g'hqmjy łpi "s wguv'kpu<

" É""Y j { "f q'vj g'r kr gu'pggf "vq'dg'ugv'wr "cu'xgtv'ecm{ "cu'r quukdrngA"

" É""Y j { "ecpN" { qw'engcp'vj g'r kr g'y kj "c'r tqr cpg'vqtej "y kj qw'f kueqppgev'łpi "vj g'ugev'kpu'qh'vj g'r kr gA"

" É""Y j cv0 gcwrtgu "uj qwf " { qw'tweg'vq'r tqvev'vj g'dwkrf łpi "cpf "pgctd{ "r gf gurtkcpuA"

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# TOOLBOX TALKS

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## Mgwg'Qr gt c v k p u / 'Ug v Wr 'c p f 'Ux t v Wr "

☞ **Position the kettle carefully in relation to the building and pedestrians.**

- ÉÁ Vt { "vq'nggr 'y g'ngwrg'cy c { 'htqo 'y kpf qy u 'ck'kpxngu.'cpf'gzkv'f qqtu0'
- ÉÁ Kp'v'j g'xlekpkl' qh'cp'ck'kpxng.'eqpukf gt'eqxgtkpi 'y g'kpxng'y kj 'r rnuke0T go go dgt'vq'crgt'v'y g' dwkf kpi 'o c k p w p c p e g 'f gr ctwo gpv'dghgt'g'y' ku'ku'f qpg0'
- ÉÁ Vj g'ngwrg'k'f'uj qwrf'qr gp'cy c { 'htqo 'y g'dwkf kpi 0'
- ÉÁ Mgrg'v'j g'ngwrg'k'f'eqmuf' y j gpgxgt' { qw'x'g'pqv'q'f kpi 'cur j cn'uq'v'j cv'pqv'cu'o cp { 'hwo gu'ctg' tgrgcugf 0'
- ÉÁ Dcttkecf g'v'j g'ngwrg'ctgc'k'h'r gf gwtkcpu'j cxg'ceeguu'v'j g'ctgc0'

☞ **Position the kettle in the most stable location.**

- ÉÁ Nqecvg'cp'ctgc'y j gtg'v'j g'i tqwpf'ku'rgxgr'cpf'htk 0'
- ÉÁ Ucpf.'mqug'f'kv'qt'wpgxgp'i tqwpf' o c { 'cmqy 'y g'ngwrg'v'uj kh'cpf'r quukdn' 'vkr'qt'ur kn0'
- ÉÁ Ej qem'v'j g'y j ggu'qh'v'j g'ngwrg'v'uj r t g x g p v o q x g o g p v 0'

☞ **Always wear the proper personal protective equipment (PPE).**

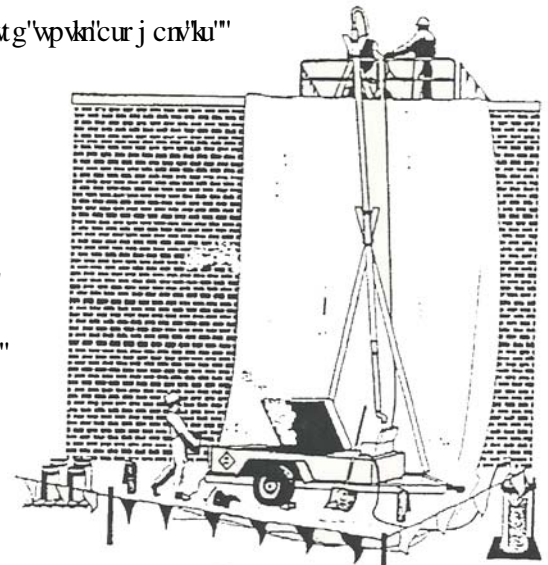
- ÉÁ Nqpi 'r cpw'y kj qw'ewhu'uj qwrf'eqo g'qxtg'v'j g'vqr u'qh'uwtf { 'y qtnldqqw0'
- ÉÁ Nqpi 'urgxgf'uj k'v'ewhu'uj qwrf'dwwqp'qxtg'v'j g'ewhu'qh'cr r tqr tlcvg'i mxxgu0'
- ÉÁ G { g'cpf'hcgr'rtqgevkp'o wuv'dg'r tqxkf gf 'd { 'c'hcgr'uj kgrf'cwcej gf 'vq'c'j ctf'j cv0Uchgv' i rnuugu'qt' i qi i ngu'wpf gt'v'j g'hcgr'uj kgrf'y kn'r tqxkf g'cf f kkpccr'r tqgevkp0'

☞ **Be careful and precise when lighting the burners.**

- ÉÁ Cny c { u'tgcf'cpf'hmqy 'y g'o cpw'cewtgtu/tgeqo o gpf cvkpu0'
- ÉÁ Fqp'wug'o cvej gu'qt'k'j j vgtu'/'k'h'v'j g'ngwrg'ku'pqv'gs wkr r gf 'y kj 'cp'cwq/rki j v'hgcwtg.'y gp'wug'c'ur ctm' i gpgtcvqt0'
- ÉÁ Uctv'v'j g'dwtpgtu'umy n'.'cpf' i tcf wcm' 'kpetgcug'v'j g'vgo r gtcwtg'wpv'k'cur j cn'ku' hgg/hqy kpi 'ctqwpf'v'j g'wdgu0'
- ÉÁ O cng'uwg'v'j cv'w'w'q'w'dwtpgtu'ctg'cko gf 'f'k'gevn' 'f'qy p' v'j g'wdgu'v'j cv'v'j g'wdgu'f'q'pqv'i gv'y ctr gf 'qt'etcengf 0'
- ÉÁ Kpur gev'v'j g'eqppgevkpu'qp'v'j g'r tqr cpg'cpmu'cpf'ngwrgu0'

☞ **Several simple precautions can prevent fires.**

- ÉÁ Fwtkpi 'tghwgnpi.'uj w'q'h'gpi kpgu'cpf'f qp'w'cmqy 'cp { qpg'kp' v'j g'ctgc'y j q'ku'uo qnkpi 0'
- ÉÁ Hro o cdrg'cpf'eqo dwukdrg'o cvgtkcu'uj qwrf'dg'ngr v'cv'rgcu' 32'hgg'v'cy c { 'htqo 'y g'ngwrg0'
- ÉÁ Rtqr cpg'cpmu'pggf'v'q'dg'wr tki j v'cpf'ugewt gf 0'
- ÉÁ Vj gtg'uj qwrf'dg'cv'rgcu'v'q'CDE'htg'gz kpi wku'j gtu'lp'v'j g'ctgc'/'dw'pqv'v'q'gtgf'qp'v'j g'ngwrg0'





*Mgwg'Qr gtcwqpu/'UgwWr 'cpf 'UxtwWr 'Vtckpki 'Vkr u'""""*







*Mgwg'Qr gt c wqp u/ 'Nqcf kpi . 'Hlt g' Rt gxgp wqp 'čpf 'Gz wpi wkij kpi "*  
*Vtckp kpi 'Vkr u'""""*

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## J qwunggr kpi "

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☞ **Roofing jobs, especially tear-offs, create a large amount of debris.**

ÉÁ Gztc'o cvgtknu'nf kpi "cdqw'yj g'lqdukg'ctg'j c| ctf u."cpf "ecp'tguwn'kp'vtr u'cpf 'hcmuO'

ÉÁ Mgr kpi "wr 'y kj 'y g'tcu'j "cu' q'w'i q'ku'o wej "gcukgt'yj cp'y cklpi "q'ergcp'k'cm'wr "cv'yj g'gpf "qh'yj g' f c{O'

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☞ **Good housekeeping incorporates simple guidelines.**

ÉÁ Mgr "cm'o cvgtknu'cpf "tcuj "cy c{ "ltqo "gpt{ "cpf "gzky c{ u'cpf "tgi wct'hqqv'tchleO'

ÉÁ O cvgtknu'cpf "gs wkr o gpv'o wuv'dg'uvqtgf "cv'hcuv'ukz "hggv'cy c{ "ltqo "y g'tqqh'gf i g. "gzegr v'qp "vkr'cpf " o gwn'lqdu'y j gtg'yj g'o cvgtknu'o c{ "dg'ucengf "y tgg'hggv'ltqo "y g'tqqh'gf i gO'

ÉÁ Vqqu'cpf "gs wkr o gpv'uj qwf "dg'r w'cy c{ "chgt "wugO'

ÉÁ Qnf "tqqh'kpi "o cvgtknu."tcuj . "ueter "y qqf . "o cvgtknu'eqpvc'pgtu."cpf "qvj gt'f gdtku'kgo u'pggf "vq'dg" f kur qugf "qh'cv'tgi wct'kpvtxcnuO'

ÉÁ Cnllrco o cdrg'hs wkf u'o wuv'dg'uvqtgf "kp'cr r tqxgf "uchgv' "ecpuO'

"

☞ **Housekeeping includes proper storage of materials and equipment.**

ÉÁ Uvqtg'o cvgtknu'cpf "gs wkr o gpv'r tqr gtn' "uq'yj cv'yj g{ "ctgp'f co ci gf "qt'uvqngpO'

ÉÁ O cng'uvwtg'yj cv'cm'vctr kpi "cpf "cpej qtkpi "ku'ugewt gO'

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**Poor housekeeping presents hazards to employees, bystanders, and property.**

ÉÁ Utr u."vtr u."cpf "r wpewtg'y qwpf u'ctg'lwuv'c'hgy "qh'yj g'dqf kn' "kplwtku'r gqr ng'ecp'uwvckp'qp'c'o guu{ " y qtmukgO'

ÉÁ Kf' gdtku'ku'nf kpi "ctqwpf "qp'yj g'tqqh'cpf "dmqy u'vq'yj g'i tqwpf "k'ecp'ecwug'r gtuqpcn'qt'r tqr gtvf " f co ci gO'

ÉÁ F wtkpi "tckpuxto u."tcuj "cpf "f gdtku'ecp'dgeqo g'nf i gf "kp'f tckpu'cpf "o c{ "tguwn'kp'hmqf kpi "qt'kp'c" eqmcr ug'qh'yj g'tqqhO'

ÉÁ Uqrxgpv'uqcnfg "tci u'r tguvp'c'ltg'j c| ctf "kh'yj g{ "ctg'pqv'r rcegf "kp'eqpvc'pgtu'y kj "hkf uO'

ÉÁ Dwkrf kpi "qeewr cpw'ecp'dg'kpeqpxgpkpegf "qt'kplwtgf "kh'ceeguu'cpf "guecr g'tqwggu'ctg'pqv'ngr v'engctO'

"

C"uvqr r { "y qtmukg'ecp'tguwn'kp'cp'wpj cr r { "dwkrf kpi "qy pgt'cpf "c'nguu' yj cp/hcxqtcdrng'tgr tguvp'vckp'qh' qwt'" eqo r cp{O'

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## *J qwunggr kpi 'Vtckp kpi 'Vkr u'*

É' Nqqmîctqwpf "j g'ukg"cpf "ugg'h'gxgt { j kpi "ku'kp"qtf gt0'

É' Uj ctg"uqo g'kplwt { "qt'r tqr gtv { "f co ci g'erc ko u" { qw'hpqy "cdqw'y cvj cxg"dggp'hkgf "ci ckpuv" { qwt "  
eqo r cp { . "qt"qvj gt "eqo r cpkgu. "hqt"j qwunggr kpi / tgrcvf "lpekf gpw0'

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# TOOLBOX TALKS

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## Tqqh'Vtcuj 'Tgo qxcn'

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☞ **Roofing projects create large amounts of trash that need to be controlled.**"

É I qqf 'j qwugnggr kpi 'ku'ko r qtvcpv'qp'c'tqqh0'

É Rqqt'j qwugnggr kpi 'etgcvgu'urk r kpi . 'vkr r kpi . 'hcnkpi . ""  
cpf 'r wpewtg'j c| ctf u0'

É Rqqt'j qwugnggr kpi 'cnuq'etgcvgu'cp'wpr tqhguukqpcn'ko ci g0'

É Qp'tqqhu'rguu'y cp'42'hggv'j ki j . 'vtcuj 'cpf 'f gdtku'ecp'dg'"  
vquugf 'qhh'df 'j cpf 'dw'c'i wctf tckn'lu{ ugo 'o wuv'dg'"  
wugf 'vq' r tggp'v'hcnu0'

"

☞ **Trash chutes provide one of the safer methods for removing trash from the roof.**

③0Á Vtcuj 'ej wgu'ctg'tgs vktgf 'y j gp'tqqhu'ctg'o qtg'v'j cp'42'hggv'j ki j 0'

④0Á Vj g{ 'o wuv'dg'ugewtgf 'vq'v'j g'dwkrf kpi 0'

⑤0Á C'i wctf tckn'lu{ ugo 'uj qwr 'dg'r nregf 'ctqwpf 'cpf 'dgj kpf 'v'j g'ej wg0'

⑥0Á P ckr'c'4\$'z'6\$'r kgeg'qh'hwo dgt 'lwuv'kp'htqp'v'qh'y'j g'qr gpkpi 'qh'"  
v'j g'ej wg'vq' r tqxkf g'c'lwqr 'hqt'c'y j ggndcttqy 0'Vj ku'y kn'o cng'"  
k'gculgt 'vq'vkr 'cpf 'f wo r 'v'j g'hqcf 0'

⑦0Á C'ej ckp'uj qwr 'dg'r w'cetquu'v'j g'qr gpkpi 'vq'v'j g'vtcuj 'ej wg'y j gp'v'j gtg'ku'pq'cev'k'kv' 'cv'v'j g'ej wg0'"

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☞ **Do not overload wheelbarrows.**

ÉÁ Mgr 'v'j g'hqcf 'mqy 'cpf 'dcrcpegf 'y j gp'tcpur qt'v'kpi 'vtcuj 'vq'v'j g'ej wg0'

ÉÁ Y j gp'wtpkpi 'c'y j ggndcttqy . 'hrcp'f qwt'dqf { 'urki j v' 'kp'v'v'j g'wtp0'

ÉÁ K'v'j g'y j ggndcttqy 'i gu'cy c'f 'htqo 'f qw'rg'v'k'i q0K'ku'dgwgt 'v'j cp'r wnkpi 'c'o wueng0'

ÉÁ Qp'j qv'f c'f u.'o cvgtkcn'ecp'lwkn'v'v'j g'y j ggndcttqy 'o cnkpi 'vkr r kpi 'f cpi gtqwu0'Gkij gt'hmgr 'v'j g'"  
o cvgtkcn'y gv.'qt'j cw'luo cngt'hqcf u0'

ÉÁ Ncti gt'hqcf u0' c'f 'tgs vktg'v'j g'wug'qh'c'j gcx { 'f w'f 'f wo r 'ectv'y kj 'v'j q'htqp'v'y j ggn'.'qt'r qy gt'"  
gs vkr o gp'v'y kj 'v'j tckgtu0'

☞ **Using cranes to remove debris creates additional concerns for roof safety.**

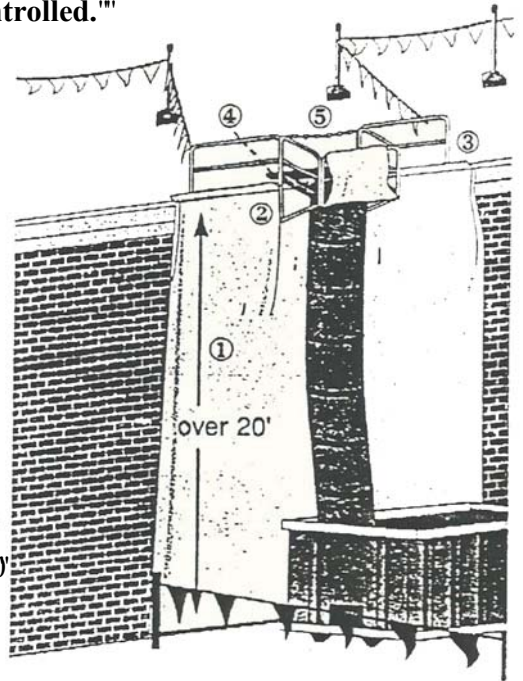
ÉÁ C'i wctf tckn'p'ggf u'q'dg'r nregf 'dgvy ggp'v'j g'y qtngt'cpf 'v'j g'gfi g'qh'v'j g'tqqh0'Rqukkqpkpi 'f gxlegu'y kj '"  
dqf { 'j ctpguugu'o wuv'dg'wugf 'y j gp'c'ugi o gpv'qh'v'j g'i wctf tckn'ku'tgo qxgf 0'

ÉÁ Cnir gtquppgn'o wuv'nc { 'qww'htqo 'w'pf gt'v'j g'lwur gpf gf 'h'qcf 0'

ÉÁ Y j gp'y qtnkpi 'y kj . 'qt'ctqwpf . 'etcpgu'j ctf 'j cw'v'o wuv'dg'y qtp0'

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*TqqhVtcuj 'Tgo qxcnVtckpki 'Vku'*

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ÉÁ Vt{ 'vq'j cxcg'yj g'o ggvpki 'kp'yj g'xlekpki{ 'qh'yj g'vcuj 'j cpf rki 'ctgc.'y kj 'i wctftcku'ugv0'

ÉÁ Gpeqwtci g'f kuewuukqp"cdqwj" cpf rki 'vcuj "qp'tqqhki 'rtqlgevu0"

ÉÁ Cum'yj g'hqmy ki 's wguqpu<

ÉÁ Cv'yj cv'j gki j v'ctg'vcuj 'ej wgu'tgs wktgf A'

ÉÁ Yj { 'o wuv'go r nq{ ggu'uc{ 'qwl'itqo 'wpf gt'qcf u'itkgf "d{ 'c'etcpgA'

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# TOOLBOX TALKS

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## G{g'Rt qvgev{kqp'''

☞ **It's important to use eye protection in order to minimize the risk of injury.**

☞ **There are different types of eye protection used in the roofing industry."**

ÉÁ Vj g'f khtg p'v{r gu'ctg<

ÉÁ Uchgv 'i ncuugu "engct." r tguetkr vkqp. "qt'vkpvgf +"  
y kj "ukf g'uj kgrf u."

ÉÁ I qi i ngu "cpf "

ÉÁ Hceg'uj kgrf u0

ÉÁ Cmlr tqgev{kxg'g{ gy gct'o wuv'dg'uco r gf "y kj "'  
CP UK\ : 90V{r kecn\ . 'uwp i ncugu'f q'pqv'j cxg'"  
y ku'er r tqxcn'cpf 'o wuv'pqv'dg'y qtp'qp'y g'lqd0



☞ **Always consider the job you will be doing so you can choose the proper eyewear.**

ÉÁ J qv'uwh0Ej go kecn." r qy gt'vqqu." h' kpi 'pcku."  
cpf "vct'qhh'f gdtku'ctg'uqo g'qh'yj g'dli i guv"  
j c| ctf u'vq'yj g'g{ gu0

ÉÁ Mewg'qr gtcvqtu"cpf 'uj ggv'o gvcn'uj qr "y qtngtu"  
o wuv'y gct'c'hwrl'ceg'uj kgrf 0I qi i ngu"  
wvf gtpgc'yj "y g'uj kgrf "y kmlr tqxkf g'cf f kklqpcn"  
r tqgev{kqp0

ÉÁ I qi i ngu'o wuv'dg'y qtp'f wtkpi "tqqh'eww kpi ."ur wf f kpi ."vct'qhh'f tklf kpi ."cpf "tqqh'xcewwo kpi "  
qr gtcvqpu0

ÉÁ C'y grf kpi 'hceg'uj kgrf "y kj "cr r tqr tlcvg'uj cf gf "ngpugu'uj qwf "dg'y qtp'f wtkpi "cp{ "y grf kpi "qr gtcv{kqp0

☞ **Make sure your eyewear is adjusted for fit and is maintained in good condition.**

ÉÁ [ qwt'g{g'r tqgev{kqp'uj qwf "dg'engcp"cpf "cxckrdng'hqt'ko o gf kcv'wug0

ÉÁ Vkpvgf 'ngpugu0 o c{ 'tgf weg'g{ g'utguu'hqt'uqo g'lqdu0

☞ **Know what to do in case of an emergency.**

ÉÁ Ngctp'dcule "htuv'ckf "tgcvo gpv'hqt'cp"g{g'kplwt{0

ÉÁ Cny c{ u'npqy "y j gtg'yj g'g{g'y cuj "dqwng cpf "htuv'ckf "nkv'ctg'ngcevfg0



"

*G{g'Rtqvgevkqp 'Vtckpki 'Vku'*

"

ÉÁ Uj qy "c'rck"qh'uchgv "i qi i ngu"qt "i rcuugu"cpf "r qkp"qw'y j gtg"vj g'CP UK\ : 9"o ctnkpi "ku'

ÉÁ I q"qxgt"xctkqwu"lqdu"cpf "gzrckp"y j lej "hqt o "qh"g{ g'r tqvgevkqp"ku"dguv'hqt"vj cv'ukwcvkqp0'

ÉÁ Cun'vj g'hqmjy kpi "s wguvkqp<"

ÉÁ Y j { "uj qwf "hgwng"qr gtcvqtu'y gct "c'hwnlhceguj kgrf A"

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# TOOLBOX TALKS

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## I nqngu 'Emvj kpi 't'pf 'Uj qgu'

☞ **Gloves provide substantial protection for your hands.**

ÉÁ E qwqp 'i nqngu'ctg'cr r tqr tlcvg'hqt 'i gpgtcn'lqdukg'''  
j cl ctf u0'

ÉÁ Ej gen'vj g'O UF U'qt 'cunl' qwt 'uwr gtxkuqt 'hqt 'vj g'''  
o quv'ghgevkxg'r tqvgevqp'ci ckpuv'uqixgpw'cpf '''  
qvj gt 'ej go lecn0'

ÉÁ Ngcvj gt 'r tqxkf gu'uw gtlqt 'r tqvgevqp'y j gp''{ qw'x'g'''  
y qtnkpi 'y kj 'j qv'cur j cn'cpf 'uj gg'v'o gxcn'dw'vj kem'''  
o km'eqwqp'i nqngu'ctg'ceegr vcdng0'

"

☞ **Your clothing is your best line of defense against the elements and against work hazards.**

ÉÁ Nqpi 'urgxgf 'uj k'w'cpf 'rpi 'r cpw'y kj qw'ewhu'y km'''  
r tqxkf g'uqo g'r tqvgevqp'ltqo 'j qv'cur j cn'cu'y gm'cu'''  
ltqo 'ecpegt/ecwukpi 'wmtcxkqrgv'tc' u'vj cv'eqo g'ltqo 'vj g'uwpo'

ÉÁ Nki j veqmgf . 'pcwtcn'hdgtgf 'emvj kpi 'vj cv'eqxgtu''{ qwt'vqtuq. 'cto u. 'cpf 'ngi u'y km'cewcm' 'nggr ''{ qw''  
eqqngt 'vj cp'kh''{ qw'f qp'v'y gct 'cu'o wej 'eqxgtkpi 0C'j cv'y km'j gr 'cu'y gm0'

ÉÁ Uwtf { 'emvj kpi 'o cf g'ltqo 'pcwtcn'hdgtu. 'hng'eqwqp'qt 'y qqn 'y km'r tqvgev''{ qw'ltqo 'cm'luqtu'qh''  
ueter gu. 'dtwkgu'cpf 'dwo u0'

"

☞ **Boots will protect your feet from sharp, heavy, and hot objects.**

ÉÁ Qxgt/vj g/cpnm'eqputwvqp'dqqvu'y kj 'ngcvj gt 'wr r gtu'cpf 'j gcx { /f wv' uqngu 'ctg'vj g'o quv'cr r tqr tlcvg''  
hqt o 'qh'hqwy gct'hqt 'c'icti g'pwo dgt'qh'tqhkpi 'lqdu0'

ÉÁ Uggri'qgu 'y km'r tqxkf g'cf f gf 'r tqvgevqp0'

ÉÁ Vj g'uqngu 'qh''{ qwt 'dqqvu'uj qwf 'dg'cr r tqr tlcvg'hqt 'vj g'v' r g'qh'atqqh'u' ugo ''{ qw'ctg'kpucn'kpi 0'

"

Tqqh'u' ugo "

Dwkn/wr 'tqqhkpi '''

Ukpi rg'r n' 'u' ugo u'''

Cur j cn'uj kpi ngu''

Kf gcn'dqqv'uqngu

twddgt'eqo r qukg'uqngu''

pgqr tgpglwddgt'uqngu''

twddgt'uqngu''

"

I nqngu. 'emvj kpi 'cpf 'uj qgu'ctg'ko r qtwcpv'eqo r qpgpw'qh''{ qwt 'r gtuqpcn'r tqvgev'xg'gs wkr o gpv0'Vj g'r tqr gt''  
eqo dlpv'qp'y km'r tqvgev''{ qw'ci ckpuv'vj g'o clqtk'v' 'qh'j c' ctf u'qp'vj g'lqd'ukg0'

"











# TOOLBOX TALKS

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## J ctf 'J cu'

### ☞ **Wear a hard hat:**

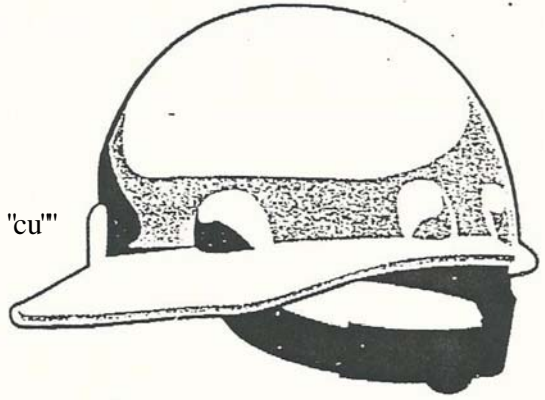
ÉÁ y j gpgxgt 'y gtg'ku'y qtmí qkpi "qp"cdqyg"q"q"

ÉÁ y j gp'y qtnkpi 'lp'y g'xlepkv{ 'qh'c'j qkv'qt'c'etcpg-

ÉÁ kh'{ qw'ctg'y qtnkpi "ctqwpf "ny /j cpi kpi "utwewt gu'uwej "cu"  
r k gu'qt'qxgtj cpi u="qt"

ÉÁ y kj 'c'hegui krf. 'kh'{ qw'ctg'c'ngwgo cp0'

"



### ☞ **Like any other piece of personal protective equipment,**

**the hard hat must be inspected on a regular basis and worn properly.**

ÉÁ Cmíj ctf 'j cu'o wuv'j cxg'c'uwur gpukqp'u'uggo 'y cv'y knícdutgd'y g'ko r cev'qh'c'hcnpí 'qdlgev0'

ÉÁ Vj g'uwur gpukqp'u'uggo 'o wuv'dg'kpur gevfg 'tgi wctn{ 'hqt'f co ci g0'

ÉÁ J ctf 'j cu'y kj 'f ggr 'uetvej gu'qt'etcemí'qh'cp{ 'nkp'f 'o wuv'dg'tgr nceg f0'

ÉÁ Vj g'j ctf 'j cv'uj qwf 'dg'y qtp'y kj 'y g'dtko 'lp'y g'htqp'lp'qtfgt 'q'hwml 'r tqgev'q'hw'heg'htqo 'hcnpí "  
qdlgev0'

ÉÁ Cmíj ctf 'j cu'o wuv'dg'uwco r gf 'lpukf g'y kj 'y g'CP UKu'f o dqr0'

ÉÁ Y j gpgxgt 'y g'j ctf 'j cv'ku'wdlgevfg 'q'ugxgtg'ko r cev'k'o wuv'dg'kpur gevfg 0'k'v'j g'uwur gpukqp'ku"  
f co /ci gf 'k'ecp'dg'tgr nceg f. 'dw'kh'y g'uj gmku'f co ci gf 'y gp'y g'gpvtg'j ctf 'j cv'o wuv'dg'f kectf gf 0'

"

### ☞ **Your hard hat must be kept in good condition.**

ÉÁ F q'pqv'f tkmlj qrgu'lp'y g'j ctf 'j cv'q'lpetgug'xgpkv'kqp0'Vj ku'o cngu'y g'uj gml'y gml'cpf 'k'o c{ 'pqv'dg"  
cdrg'q'y kj uexpf 'y g'hqteg'qh'cp'ko r cev0'

ÉÁ F q'pqv'r ckp'vcp{ y kpi 'qp'y g'j ctf 'j cv'dgecwug'o cp{ 'r ckpu'eqpv'kp'uqk'gpw'y cv'f gi tcf g'r ruvku0'

"

### ☞ **Hard hats need to be worn regardless of weather conditions**

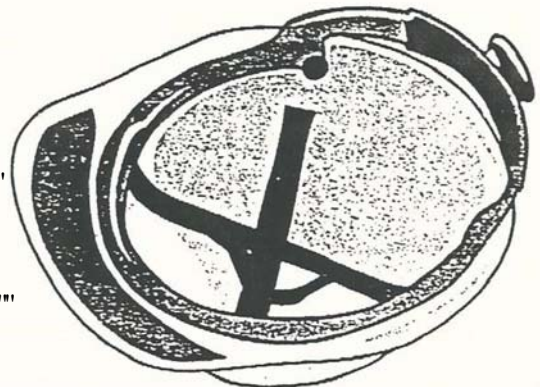
ÉÁ Qp'y kpf { 'f c'f u. 'y g'j gcf dcpf 'uj qwf 'dg'cf lwugf 'q'nggr ""  
y g'j cv'qp"q'wt'j gcf 0'Ej lp'utcr u'ecp'cnq'dg'wugf 'q'"  
ugewtg'k'v'q"q'wt'j gcf 0'

ÉÁ F wtkpi 'y g'y kpyt'o qpy u. 'c'nggeg'rkpki 'f guki pgf 'hqt'"  
j ctf 'j cu'ecp'dg'upcr r gf 'kpq'r nceg'ctqwpf 'y g'uwur gpukqp'"  
utcr u0'

ÉÁ Kp'y g'uwu o gt"q'w'o c{ 'y kpm'f qw'y knídg'eqqrgt'y kj qw'"  
y g'j ctf 'j cv'dw'hcxkpi 'k'qp'y knícewcm'nggr ""q'w'eqqrgt'"  
d{ 'uj krf kpi ""q'w'htqo 'y g'uw0'

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## *J ctf 'J cw'Vtckpki 'Vku'*

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ÉÁ J cxg'c'j ctf 'j cv'cxckndg'v'uj qy 'y g'CP UKuco r.'j qy 'y g'uwr gpukp'u{ugo 'y qtmu.'cpf 'j qy 'vq"  
kpur gev'y g'j ctf 'j cv'

ÉÁ Cuni'y g'hmqy kpi 's wguvqpu<

ÉÁ Y j cv'uj qwf p'v'qwr'ckpv'qwt'j ctf 'j cv'qt'f tkn'j qrgu'kp'kv'A'

ÉÁ Y j { 'uj qwf "qwcny c{u'y gct'kv'y kj 'y g'dtko 'kp'y g'htqpva'

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Cffklqpcn'Vqr leu'F kcuwugf <aa"

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### ALL ATTENDEES MUST SIGN

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## J gctkpi 'Rt qvgevqp "

☞ **Hearing protection is often overlooked as a form of personal protective equipment (PPE), but your hearing needs to be protected as much as your eyesight or any part of your body.**

ÉÁ Wprkng'qvj gt'kplwtkgu."uwej "cu'ewu"cpf "dtqngp"dqpgu."j gctkpi "rqugu"qhvgp"vcng"ko g'q"f gxgnqr 0"

ÉÁ [ qw'o c{"hgn'hkng"}{qw'ctg'wugf "q'vj g'j ki j "pqkugu'cuqekcvgf "y kj "eqputwekqp0Dw'gxgp'kh'vj g"pqkug" f qgup)"dqj gt{"q w."{qw'ctg'ukn'cvt'kum'qh'f gxgnqr kpi "c"j gctkpi "quu0"

ÉÁ Cu'r qqr ng'i gv'qrf gt"vj gkt"j gctkpi "f gi gpgtcvgu."y j lej "o gcpu'kw'i gu'y gengt0J gctkpi "ckf u'ecp"co r rkh{" yj g'uqwpf u'vj g{"j gct0J gctkpi "quu'qp"vj g"lqd'ku'f guntwekxg."y j lej "o gcpu'vj cv'vj g"get'ku'dgkpi "kplwtgf." pqv'lwu'vj gcnpgpf 0J gctkpi "ckf u'ecppqv'eqo r gpcvg'hqt"vj ku'v'r g"qh'j gctkpi "quu0"

ÉÁ Cn'uw'ngu'qh'j gctkpi "r tqgevqp"j cxg"pqkug'tgf wekqp'tcvkpi u"P TT+0Vj g'j ki j gt"vj ku'pwo dgt'ku'vj g" dgwgt'r tqgevqp{"qwt'f gxleg'r tqxkf gu0P TT)"u'ecp"dg'hqwpf "qp"vj g'j gctkpi "r tqgevqt)u'r centi kpi 0"

☞ **One type of hearing protection commonly used in construction is the type that is worn in the ear.**

ÉÁ Vj ku'v'r g'ku'i gpgtcm{"f kur qucdng"gzr cpf cdng'hqco "qt"vj g'tgwucdng'hkwgf "v'r g0"

ÉÁ F qp)"tgwug"f kur qucdng"r nwi u0"

ÉÁ K'ku'ko r qtcvpv'q'tgcf "cpf "hqmqy "cm'kputwekqu"y j gp"y gctkpi "f kur qucdng'hqco 0F kur qucdng'hqco " tgs vkt gu'vj g'r nwi "q'dg'tqngf "dgw ggp"vj g'hkpi gtu." kputvgf "kp'q"vj g"get'ecpcn"cpf "j grf "kp'r rceg'wpkl" yj g'hqco "ku'hwml "gzr cpf gf 0"

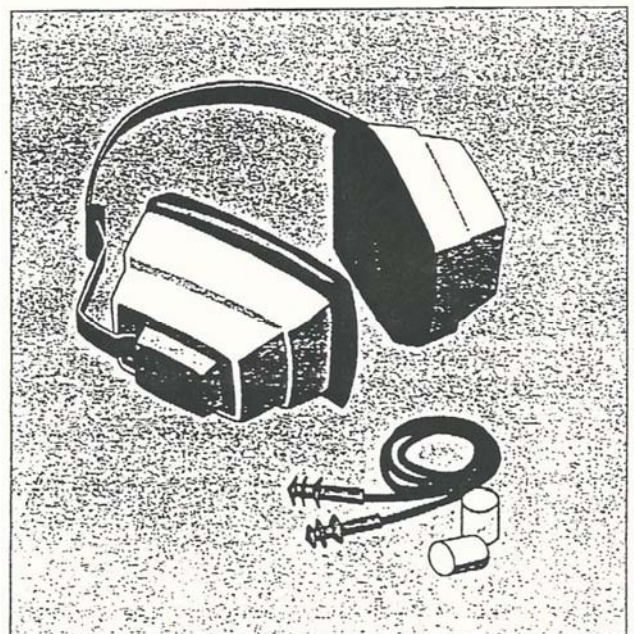
ÉÁ Tgwucdng"r nwi u'uj qwf "dg'engcpgf "gcej "ko g'vj g{" ctg'tgo qxgf "htqo "vj g"get0"

☞ **Another type of hearing protection used in construction is the type that is worn over the ear (called ear muffs).**

ÉÁ Vj gug'ecp"dg'o qwpvgf "f kgew{"qp'q"j ctf "j cuu0"

ÉÁ Vj g"get"o whu'i gpgtcm{"qhgt"c'urki j w{"j ki j gt"" f gi tgg'qh'r tqgevqp"vj cp'vj g'v'r g'y qtp'kp"vj g"get0"

J gctkpi "r tqgevqp"uj qwf "dg'wugf "y j gpgxgt"hwf "" gs vkr o gpv."uwej "cu'tqqh'ewwgtu"qt"eww'qh'ucy u."ctg"" qr gtcvgf 0"





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## *J gctkpi 'Rtqvgevkqp 'Vtckpki 'Vku'*

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ÉÁ J cxg"cuo r ng"qh'gcej "V r g"qh'j gctkpi "r tqvgevkqp"cxckrdng0'

ÉÁ Rtcevleg'kpugtvpki "f kur qucdng'hqco "r nwi u'ceeqtfkpi "vq'yj g'f kgevkqpu'htqo "yj g'o cpwkeewt gt."cpf "yj gp"  
f go qpuctevg"kv"vq'yj g'r ctvlekr cpw0'

ÉÁ K'hqco "r nwi u'ctg'wugf "qp'yj g'lqd."j cxg"gcej "r ctvlekr cpv'kpugtvc'r ckt'kpqv'yj gkt'gctu0'

ÉÁ Cum'yj g'hqmgy kpi "s wguvkqpu<

ÉÁ Y j cv'f qgu'P TT'ucpf 'hqtA'

ÉÁ K'k'r tghgtcdng"vq"j cxg"cu"j k j "P TT"xcwng."qt"cu"hy "qpgA'

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## Rgt uqp c nRt qvgevkg'Gs wkr o gpv'

### ☞ **Wear an ANSI-approved hard hat:**

ÉÁ y j gpgxgt'yj gtg'ku'y qtmí qkpi "qp'cdqyg"qwo'  
 ÉÁ y j gp'y qtnkpi 'lp'yj g'xlepkv'qhc'j qkv'qt'etcpgo'  
 ÉÁ kh'q'w'ctg'y qtnkpi "ctqwpf"ny "j cpi kpi "uxwewtgu'uwej "cu'r kr gu'qt"qxgtj cpi uO'  
 ÉÁ y kj "c'heg'uj krf."kh'q'w'ctg'c'ngwgo cpO'

### ☞ **Wear eye protection:**

ÉÁ cp{xlo g"q'w'ctg"gzr qugf "v'ewwki . "dwtpki . "ej kr r kpi . "i tlpf kpi . "cr r n' kpi "uqkxgw"qt'y grf kpi O'  
 ÉÁ Cn'cr r tqxgf "g'g'r tqgevkgp'y kn'dg'wco r gf "y kj "SCP UK : 9\$O'  
 "

### ☞ **Wear hearing protection:**

ÉÁ y j gpgxgt"q'w'ctg"ctqwpf "nw'gs wkr o gpvOK'ecp'f gvtktcvg"qwt'j gctkpi . ""  
 uq'cum'q'w'w'gtxkuqt'hqt'get'r nwi u'qt'o whuO'  
 ÉÁ Vj g'j ki j gt'yj g'pqkug'tgf wekvp'tcvkpi "P TT-"y g'dgwgt'r tqgevkgp"qwt'  
 y kn'j cxgO'

### ☞ **Wear hand protection:**

ÉÁ y j gp'y qtnkpi "y kj "j qv'cur j cnOY j gyj gt"q'w'ej qqug'hcjy gt'qt'eqwqp . ""  
 yj g'i nqngu'o wuv'dg'upwi /hwkpi "ctqwpf "y g'y tkuv'uq'y cv'yj g' "ecp'wengf ""  
 wpf gt'yj g'ewhu'qh'q'w'w'ipi /urgxgf "uj kpO'  
 ÉÁ y j gp'y qtnkpi "y kj "uqkxgw"qt'qv'gt'ej go kecnOEj genIO UF U'uj ggvu'qt""  
 cum'q'w'w'gtxkuqt'uq'yj cv'q'w'ecp'ej qqug'yj g'eqttegv'v' r g'qh'i nqnguO'  
 ÉÁ y j gp'y qtnkpi "y kj "uj ggv'o gvcn'cpf "qv'gt'uj ctr "qdlgewO'  
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### ☞ **Wear clothing appropriate to your job.**

ÉÁ Y j gp'y qtnkpi "y kj "j qv'cur j cnw'w'ipi "urgxgu'ctg'c'o wuv'cu'y gni'cu'w'ipi ""  
 r cpvu'y kj qw'ewhu'yj cv'eqxgt"  
 yj g'vqr u'qh'j gcx' "y qtmídqwuO'  
 ÉÁ Eqwqp'qt'f gpkO "enqj kpi "r tqxkf gu'yj g'dguv'r tqgevkgpO'  
 ÉÁ Hqwy gct'o wuv'dg'f wcdrg'cpf "f guki pgf "hqt'eqpux wekvp'y qtnOF khgtgpv'  
 ÉÁ lqdu'y kn'f go cpf "f khgtgpv'v' r gu'qh'hqqv'r tqgevkgpOT gs wktgf "hqwy gct'y kn'f gr gpf "qp"q'w' "lqd"uj qr "  
 qt'hgrf + "tqqh'unqr g"ny "qt'uggr + "cpf "tqqh'v' r g"dwkn/wr . "o gvcn'qt'uj kpi rnf +O'  
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# TOOLBOX TALKS

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## Dcemkplwt { 'Rt gxgp vkgp "

☞ **The best way to prevent back injuries is to learn to lift properly. A few common sense tips can help you avoid injury.**

ÉÁ Utgvej 'htgs wgpwn 'y tqwi j qw'v'j g'f c { 'kp'qtf gt 'v'q'mqugp'wr 'cpf 'hgg' { qwt'o wuergu'r tgr ctgf 'hqt'y qtno

ÉÁ Ej gem'v'j g'y gki j v'qh'cp'qdlgev'dghqtg { qw'hk'w'k'd { 'hk'kpi 'c'eqo gt 'qh'v'j g'hqcf O'

ÉÁ I gv'j gr 'h'v'j g'qdlgev'ku'j gcx { O'

ÉÁ Wug'gs wkr o gpv'uwej 'cu'j qkwa.'f qmku.'j cpeftu'cpf 'hqtmkhu'y j gpgxgt'r qukdrgO'

ÉÁ Ej gem'v'j g'kpwpf gf 'r cv'j 'qh'v'cxgn'dghqtg' { qw'o qxg'cp'qdlgev'v'q'o cng'uwg'v'j cv'v'j g'r cv'j " ku'ergctO'

ÉÁ Dghqtg'hk'kpi . 'r rceg'qpg'hqv'dgukf g'y g'hqcf "cpf "qpg'hqv'dgj kpf 'k00 cng'uwg'v'j { qwt'hggv'ctg'r rceg'f " hko n' 'uq'v'j cv' { qw'y kn'p'qv'hug' { qwt'dcnepegO'

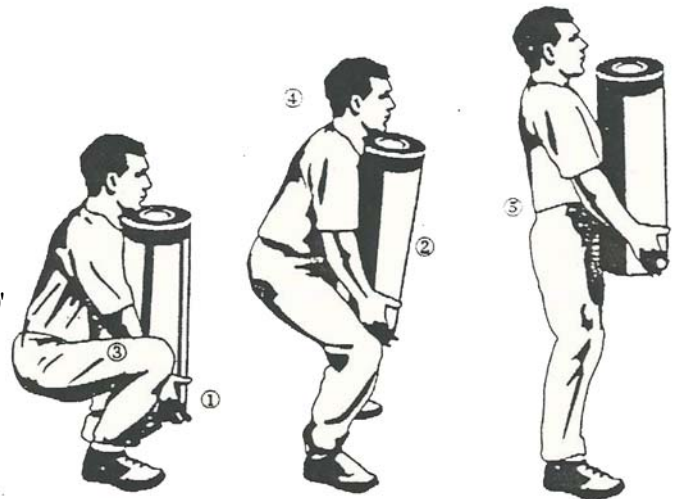
30Á Hko n' 'i teur 'y g'qdlgev' { qw'kpwpf 'v'q'hk'o' Meqr " { qwt'cto u'cpf "gndqy u'emug'v'j { qwt'dqf { O'

40Á Cry c { u'nggr 'y g'qdlgev' { qw'ctg'hk'kpi 'emug' v'j { qwt'dqf { O'

50Á Nkhu'y kj " { qwt'hgi u'v'q'uwrr qtv'v'j g'y gki j vO' Nkhu'y g'qdlgev'utcki j v'wr "cpf 'f qp'v'y ku'qt'rgcpO'

60Á J qrf " { qwt'j gcf 'wr 'y j gp' { qw'hk'w'v'q'hgg' " " { qwt'ur kpg'kp'ku'pcwtcn'ewtxgf 'r qukkqpO'

70Á F q " { qwt'dguv'v'q'o clpvc'p'v'j g'ewtxg'lp' { qwt' my gt'dcen'ly j kg'hk'kpi O'



☞ **It's important to maintain your body's power position.**

ÉÁ F qkpi "y ku'y kn'i tgcw' { 'tgf weg' { qwt'ej cpeg'qh'kplwt { "cpf 'i kxg' { qw'v'j g'o quv'hk'kpi 'r qy gtO'

☞ **Getting help from other employees will allow you to do your job efficiently and safely.**

ÉÁ Ki'cp'qdlgev'ku'j gcx { . 'cun'c'eqy qtngt'hqt "cuukucpegO'

ÉÁ Ego o wplecwg'y kj 'y g'r gtuqp'cuukukpi " { qw'uq' { qw'hk'v'j g'hqcf "cpf 'ugv'k'f qy p'cv'v'j g'uco g'vko gO'

ÉÁ Ki'r qukdrg. 'dqy 'r gtuqpu'uj qwf 'ectt { "y g'hqcf 'y j kg'hk'kpi 'hqt'y ctf O'

ÉÁ Ki'v'j g'hqcf 'ku'xgt { j gcx { . 'cng'tguv'dtgcnuO'

V { r kcm { . 'dcemkplwt { 'f agu'pqv'qeeut 'htqo "qpg'kpe'f gpv'O'ku'v'j g'tguwn'qh'ko r tqr gt'hk'kpi "qxgt'c'mpi 'r g'kqf " qh'vko gO'v'j cv'u'y j { 'k'u'uq'ko r qtcvp'v'q'hk'v' r tqr gtn' { gcej 'cpf 'gxgt { 'vko gO' qw'p'gxgt'mpqy 'y j cv'v'j kn' vki i gt'c'r clphw'kplwt { O'



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*DcemKplwt{'Rt gxgp vqpp 'Vt c k p k p i 'Vkr u'}*

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É F go qpwtcvgr'tqr gt'hkpi 'gej pls wg0'  
É J cxg'cp'qdlgev'cpf "cunir gqr ng'vq'hk'k0Kxkg"qdugtxcvkpu'cpf 'etkls wg'itqo 'yj g'tguv'qh'yj g'etgy 0'  
É Cun'yj g'etgy "c'hgy "s wguvkpu'vq'r tqo qvg'f kuewaukpp<"  
" É""J cxg"{'qw'gxgt'r wngf "c'dcemlo wueng'hkpi 'uqo gyj kpi A"  
" É""Y j {'ku'k'lo r qtvcpv'vq'cunihqt'cuukvcpegA"  
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**ALL ATTENDEES MUST SIGN**

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# TOOLBOX TALKS

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## Go r nq{gg'Tgur qpukdkwku'

☞ **Although OSHA requires employers to provide safe worksites, it's your responsibility to follow the rules."**

ÉÁ Vcng{" qwt"lqd"ugtkwun{"cpf"dg'r tqhgukqpcn0Eqy qtngtu"cpf"enkwpu'gZR gev'k'qp'yj gk'r tqlgew0'

ÉÁ Fq"pqv'y qtnlqp"q"tqqh'kh{" qw'ctg'wpf gt"y j g'kphwgep'qh'creqj qn'qt"ftwi u0Qpg'y tqpi "uwr"ecp'tguwn" kplwt{"q{"qwt"eq/y qtngtu0'

☞ **Maintaining good job site housekeeping is very important. You and your coworkers can help keep the project neat and orderly.**

ÉÁ Rleniwr "tcuj"cpf"fgdtku"vj cv'ku'h{ kpi "ctqwpf"uq'k'f qgup)N'dgeqo g'ckdqtpg"qt"dgeqo g'c'tkr r kpi " j c| ctf 0'

ÉÁ K{" qw'ur kn'cp{ vj kpi ."ej gen'vj g'O cvgtkcn'Uchgv{ 'F cvc'Uj ggV\*O UF U'hqt"cp{ 'r gtuqpcnr tqvewxg" gs wkr o gpV\*RRG+tgswktgo gpw'qt"engcp/wr "o gjv qf u0Vj gp"engcp'k'wr "ko o gf kwgn{ "uq'k'f qgup)V' dgeqo g'c'urkr r kpi "j c| ctf 0'

☞ **It is your responsibility to wear personal protective equipment (PPE) that is appropriate for job site hazards.**

ÉÁ Y gct{" qwt"j ctf"j cv"uchgv{ 'i nuugu."i mxxgu."j gctkpi "r tqvewkq."iqpi "unegxgf"uj kw"cpf "y qtnldqqw0' Vj g{"ecp'r txxgpV{" qw'htqo "dgkpi "ugtkwun{"qt"hcvm{ "kplwtgf 0'

☞ **It is your responsibility to report accidents or near misses to your supervisor immediately.**

ÉÁ Vj g'i qcn'qh'tgr qt kpi "ceekf gpw'qt'pget"o kuugu'ku'pqv'q'r wpluj "qt"uggmldmco g."dw'vq"vcng"eqttgevxg" cevkwpu"vj cv'y kn'gpwut g'vj g'ceekf gpw'y kn'pqvtgqeewt 0'

ÉÁ Gxgp'kh'vj g'kplwt{"qt"lpekf gpv'uggo u'uo cm'tgr qtv'k0Uqo g'ko gu'kplwtkgu'ecp"dgeqo g'y qtug'qxxg'tko g0' Hqt"gzco r ng."uo cm'ewu"cpf"regetcvkpu'ecp"dgeqo g'kphgevgf "k'pqv'r tqr gtn{ "tgcwgf 0'

**Report all unsafe acts and conditions.**

ÉÁ K{" qw'y kpguu"cp"wpuchg"cevd{" {" qwt"eq/y qtngtu."rgv{" qwt"uwr gtxkuqt"npqy 0[ qw'o c{"dg'r txxgpv kpi " uqo gdqf {"htqo "dgkpi "kplwtgf 0'

ÉÁ K{" qw'ugg"cp"wpuchg"eqpf kkpq."hng"q"dtqngp"rcf f gt."vcng"cekwq"q'tgo qxxg'k'htqo "ugtxleg"cpf "vgm{ {" qwt"uwr gtxkuqt"uq'k'ecp"dg'tgr rnegf "y kj "c'rcf f gt"kp'i qqf "eqpf kkpq0'



*Go r n q { gg ' T g u r q p u k k k l g u ' V t c k p k p i ' V k r u ' }*

É J cɣg'xctkqwu'v r gu'qh'RRG'cxckcdng'\*qt'tgxkgy 0F kɛwuu'tukwɛkqpu'lp'y j kɛj 'y j g'RRG'ku'tgs wktgf 0'  
É F kɛwuu'y j g'hce'v'y c'v'y j gp'cp'lp'lw t' { 'qɛewu'qp'y j g'lqdu. 'y j g'go r m{ gg'ku'pq'v'y j g'qp'p' { 'qp'g'chhgevgf ðgo lɔf "  
y go 'y c'v'y g't' hco kɛgu'ctg'cnu'q'chhgevgf 'h'y j g{ 'o ku'y qtnɛcp'f 'y j g'r tq'lgɛv'htgo cp' 'o c{ 'pq'v'dg'cdng'v"  
tgr rɛg'i qqf "go r m{ ggu0'

" É<sup>11</sup>Y j cv'ctg'uqo g'qh'vj g'wpuchg'eqpf kkp'u" { qw'j cxg'u'ggp'kp'vj g'tgeg'pvr cuvA"

"É<sup>""</sup>Y j { 'kɪ'kʷ'ko r q t v c p v'q' t g r q t v'g x g p'o k p q t 'k p l w t k g u'q' } { q w t' u w r g t x k u q t A"

$P \leq q$

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CffklqpcnVqr leuF kieuugf <aa"

### ALL ATTENDEES MUST SIGN

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# TOOLBOX TALKS

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## J gcv'Ut guu'

Y j gp'y kj "{ qwt'k0dqf { 'lu'gZR qugf 'vq'j gcV' "{ qwt'u{ uVgo 'ecp'dgeqo g'ut guugf 'vq'yj g'r qkpV'y j gtg'k'ecppqv' ghgeVxgn{ "f gcn'y kj 'k0'

"

Rtqdrgo " j gcV'tcu j "	Ugxgtk{ " o kf "	Uki pu{ "U{o r vqo u" , 'tcuj " , 'f kueqo hqtV'	Vtgcvo gpv' , 'ej cpi g'emqy gu" , 'wug'r qy f gt"qt"o gf kcvgf "etgco "
j gcV'etco r u"	o kf "	, 'etco r u'lp"o wueg'i tqw u" uvej "cu'dcem'ngi u."cpf " r tko ctkn{ 'kp"cdf qo gp"	, 'cng"grgeVtqn{ vq'vcdrgu."f tklmu" y kj "grgeVtqn{ vgu."qt"gxgp'lwuv" r qvqv"ej k r u'qt'r tgv gnu"
j gcV'gzj cwukqp"	ugtkwu"	, 'rtqhwug'uy gcVki " , 'pcwugc" , 'y gcnpguu'cpf 'hcvki vq" , 'tkpi kpi 'lp'yj g'gctu" , 'lpvgpug'j gcf cej gu"	, 'tguv'lp'yj g'uj cf g'qt"ckt" eqpf kklpklpi " , 'f tklmnr rnpv{ 'qh'y cvgt"
j gcV'utqng"	ugxgtg"y km' tguwn'lp'f gcVj 'kh' k0u'pqV'tgcvgf +"	, 'tgf.'r cvej .f t{ 'unlp" , 'o c{ dg'cngtgf 'dgj cxkqt" , 'lpetgculpi 'f kuqtlgpcvklp" , 'gzeguukxg'dqf { 'vgo r gtcwtg" *eqtg'vgo r gtcwtg'lp"gzegu'qh" 326AH"	, 'i gpv'ko o gf kcvq"o gf kecn' cvgpcvklp"cu'uqqp"cu'r quukdng" , 'eqqn'wukpi "cp{ "o gcpu'r quukdng" o'uj cf g."ckt"eqpf kklpklpi ." tgo qxlpi "qt'y gwklpi 'y g'emqy kpi "

"

J gcV'kmpguugu'ctg'eqo r ngvgn{ 'r tvgpvcdrng0'

ÉÁ Cxqkf "f tklmki "creqj qrlc'dgxgtci gu'yj g'pki j v'dghqtg"cj qv'f c{ 'dgecwug'k'y km'hgcxg" { qw'uqo gy j cv' f g{ f tcvgf "cpf "o qtg'r tqpg'vq'j gcV'ukempguu0'

ÉÁ I gv'r rnpv{ 'qh'uggr "cpf "gcV'y gnu0'

ÉÁ Vcng" { qwt' dtgemu'lp'uj cf { "ctgcu0'

ÉÁ F tklmnr rnpv{ 'qh'y cvgt"yj tqwi j qw'yj g'f c{ "/f qp)y ck'vplki { qw'hggd'y kuV{ 0'

ÉÁ Cxqkf "echgkpg0'

ÉÁ Wug'hcpu'ctqwpf "y g'y qtnictgc."kh'cxckcdng0'

ÉÁ Cny c{ u'y gct"e'uj kv.r' tghgtcdn{ 'qh'eqwqp"o cvgtkcn0'

Y qtnlwr "vq'k0k'ecp"vcng"cdqw'y q'y ggmu'vq'i gv'wugf "vq'y qtnlpi 'lp"cj qv'gpxktqpo gpV0'

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## *J gc v'Ut gui'Vt c k p k p i 'V k r u'*

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É Gzr ñkp"eqo r cp{ 'r tqegf wtgu'hqt"o gf kecn'go gti gpelgu0'

É Go r j cuk g'vj cvj gc v'utqng'ecp"dg'hcvn'cpf 'tgs wktgu'lo o gf kcv'v'tgcvo gpv0'

É Cun'vj g'hqmjy kpi "s wguvkppu<

" É""Y j cv'uj qwf "{ qw'f q'hqt"uqo gqpg'y j q'ku'gzr gtlgpekp i "uqo cej "etco r u"qp"e"j qv'f c{ A'

" É""K{ qwt"eqy qtngt u'hceg'ku'f t { 'cpf 'tgf . "cpf "j g'ku'uqo gy j cv'peqj gtgpv'y j cv'uj qwf "{ qw'f qA'

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## *J qt ugr n{''*

☞ **When you were new to the roofing industry...**

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É { qw'y gtg'r tqdcn{ "gz'tc"ecwkwu."

"

É vj g'vj qwi j v'qh'erko dlp{ 'ncf fgtu.'y qtnkpi 'cv'j gli j w.'cpf 'dglpi 'ctqwpf 'j qv'cur j cn'y gtg" 'r tqdcn{ " gpqwi j 'q'o cng"{ qw'c'hwg'pgtxqu.'cpf "

"

É { qw'pgxgt'y qwf 'j cxg'f tgc v'qh'r n{ lpi 'lqngu'cpf 'tqwi j /j qwulpi 'qp'vj g'lqdO'

"

"

☞ **However, as you became more comfortable with your work environment...**

"

ÉÁ { qw'uctvgf 'v'q'i gv'q'hpqy "{ qwt'eqy qtngtu'dgwgt."

"

É" { qw'cnuq'dgeco g'iguu'pgtxqu'cdqww'vj g'j c| ctf u'qh'{ qwt'v'cf g.'cpf "

"

É { qw'hgn'o qtg'eqo hqtcdng'lqnkpi 'ctqwpf 'y kj 'vj g'tguv'qh'vj g'etgy O'

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☞ **The more comfortable you get...**

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ÉÁ vj g'o qtg'vgo r vgf "{ qw'o c{ 'dg'v'q'r n{ 'r tcevekn'lqngu'qt'uctvg'uqo gqpgO'

ÉÁ "

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☞ **Horseplay is dangerous and can result in injuries and even death.**

"

ÉÁ Cevxkkgu'uwej 'cu'ur tc{ lpi 'uqo gqpg'y kj "c"j qug.'uj cnkpi "c'ncf fgt.'qt'upgcnkpi 'wr "qp'uqo gqpg"j cxg" pqr'r neg'qp'vj g'tqqhO'Vj gug'vj lpi u'ecp'ngcf "q'urk u.'vkr u.'hcmu.'huv'hki j w.'qt'y qtug.'f gcvj #'

ÉÁ "

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[ qwt'go r m{ gt'y cpw "{ qw'v'q'j cxg'hw'p'cpf 'gplq "{ qwt'lqd.'dw'j qtugr n{ 'ecppqv'cpf 'y knlpqv'dg'vqrgtcvgf O'

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## *J qtugr n{ 'Vtckp kpi 'Vkr u'*

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É Gzr nkp"eqo r cp{ 'r qnle{ "cpf "f luekr nkpct{ 'r tqegf wtgu'tgi ctf kpi "j qtugr n{ 0'

É Cum'go r nq{ ggu'hqt "tgcrl'gzco r ngu"qh"j qtugr n{ 0'

É Cmny "y g'y qtngtu"vq"uj ctg"uvtlkgu"qh"lqngu"qt "r n{ kpi "y cv'tguwngf "kp"eq/y qtngtu'dgkpi "j wt\0'

É J cxg'yj go "y kpn'qh'qh/y g/lqd"gzco r ngu"kh'pqpqg"qh'yj go "j cxg'tqqh kpi "uvtlkgu."uq"y g{ "y km'dw\ "kpq"y g" eqpegr v'yj cv'r tcpm\ "ctg"pqv'cny c{ u'kppqegpv'r n{ 0'

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# TOOLBOX TALKS

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## Qh'v g/Lqd'Uchgv''

O cp{ 'qh'v g'uchgv 't wgu'v cv{ qw'wug'cv'y qtnluj qwf 'dg'qdugtxgf 'cv'j qo g'cnuq0

☞ **Make sure to use your defensive driving skills in your personal vehicle; not just when you are at work.**

ÉÁ Qxgt '62.222'r gqr ng'ctg'nkngf 'gxgt{ '{ gct'qp'v'j g'pcvkqp'u'j ki j y c{ u0

ÉÁ Cny c{ u'y gct '{ qwt 'ugcv'dgn' 'gxgp'qp'uj qt v'tkr u0

ÉÁ F qp)'ckki cvg0

ÉÁ Cmgy '{ qwtugrh'r ngpx'qh'ko g'v'q'i g'v'q '{ qwt 'f gukpcvkqp'uq '{ qw'f qp)'j cxg'v'ur ggf 0

ÉÁ P gxgt 'f tkxg'lpvzlecvgf 0Wug'c'f guki pcvgf 'f tkxgt 'qt 'ecm'c'ecd0

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☞ **When using ladders at home you should follow the same safety rules that you use on the job.**

ÉÁ O cng'wutg'v'j g'rcf f gt 'ku'v'kf 'qh'cpf 'gzvgpf u'v'j tgg'hggv'cdqxg'v'j g'v'qr 'qh'v'j g'tqqh0

ÉÁ Tgo go dgt 'v'ugv'v'j g'dcug'qh'v'j g'rcf f gt 'qpg'hqpv'cy c{ 'htqo 'v'j g'y cmhqt 'gxgt { 'hqw'hggv'kp'j gki j v0

ÉÁ Cny c{ u'ugv'v'j g'uchgv 'hggv'qp'hko 'i tqwpf 0

ÉÁ Hqt 'uvg' 'rcf f gtu.'o cng'wutg'v'j cv'v'j g'ngi u'ctg'hwnx'gzvgpf gf 'cpf 'v'j cv'v'j g'dtcegu'ctg'hqngf 'lpv'q'r rceg." cpf 'tgo go dgt 'pqv'v'q'ucpf 'qp'v'j g'v'qr 'uvg 0

ÉÁ Kpur gev '{ qwt 'rcf f gtu'hqt 'etcemi'qt 'qv'j gt 'f ghgeu0

ÉÁ Cny c{ u'dg'gzv'c'ectghw'ctqwpf 'r qy gt 'hpgu.'gur gekm{ 'y kj 'o gvcn'rcf f gtu0

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☞ **Personal Protective Equipment is important whenever you're doing home projects.**

ÉÁ Y gct 'uchgv 'i nuugu'y j gp'wukpi '{ qwt 'r qy gt 'vqqn0

ÉÁ I mxgu'emvj kpi . 'cpf 'uj qgu'uj qwf 'dg'uwkxf 'v'q '{ qwt 'lqd0

ÉÁ K '{ qw'ctg'y qtnkpi 'kp'ctgc'y j gtg'v'j gtgu'tgg/vtko o kpi 'qt'cp{ 'qv'j gt'qxgtj gcf 'y qtnli qkpi 'qp.'v'j gp'c" j ctf 'j cv'ku'cr r tqr tkvg0

ÉÁ Ku'c'i qqf 'kf gc'v'y gct 'uchgv 'i nuugu'gxgp'y j gp'ewwki 'v'j g'i tcuu.'v'q'r tqgev '{ qwt 'g{ gu'htqo 'h' kpi " tqemu0

Vj gtg'ctg'cm quv'cu'o cp{ 'j c{ ctf u'cv'j qo g'cu'v'j gtg'ctg'cv'y qtn0Ku'ko r qtcpv'v'q'tgeqi pk g'v'j go 'uq' '{ qw'ecp'r tqgev '{ qwtugrh'cpf '{ qwt 'hco k' 00 cng'wutg' '{ qwtgcf 'tj g'kpwtwv'kpu'cpf 'v'j g'o cpw'cewtgtu" tgeqo o gpf cvkpu'dghgtg'dgi kppkpi 'cp{ 'pgy 'r tqlgew0

"

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## *Qh'ij g/Lqd'Uchgv'Vtclpki 'Vku'*

"

É Cunly j cv'npf u'qh'gs wkr o gpv'r gqr rg'j cxg'lp'ij gk'j qo gu.'cpf 'y j cv'utw'qh'r tgecw'kpu'ij g{'  
v{ r lecm{ 'wug0'

É Gpeqwtci g'f'uewukqp'cdqw'ij g'npf u'qh'uj qt vewu'r gqr rg'vcng'cv'j qo g.'ij cv'y qwf 'pqv'dg'vrgtcvgf "qp"  
ij g'lqd0'

É Cunly j cv'utw'qh'\$ctqwpf 'ij g'j qwug'\$ceekf gpv'r gqr rg'j cxg'j cf A'

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### ALL ATTENDEES MUST SIGN

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Uj ggv'O gvc nUc hgv' "

Uj ggv'o gvcn'o clpn' 'wugf 'kp'tqqh'pi 'hqt'tqqh'pi 'i wwtu.'f qy pur qwu.'cpf 'uvcpf kpi 'uvgco 'tqqh'pi . 'gZR qugu' { qw'vq'ugxgten'wpls wg'j c| ctf u0' "

☞ **You must always be aware of the sharp edges on sheet metal.**

ÉÁ Wug'gz vgo g'ecwkp'cpf 'cny c{ u'y gct' i mXgu'y j gp'j cpf rkp' 'uj ggv'o gvcn'0'

ÉÁ Megr 'uj ctr 'gf i gu'cpf 'eqtpgtu'cy c{ 'h'qo 'y cmkpi 'ctgcu0'

ÉÁ J cpf 'ew'gf i gu'ctg'gur gekcm' 'uj ctr =h'kp' 'qt' i t'kp' kpi 'dwttu.'qt'j go o kpi 'y' g'gf i g'y kn'rguugp'y ku' v' r g'qh'j c| ctf 0' "

☞ **Some sheet metal is lead-coated, which presents another concern.**

ÉÁ Ngcf 'ku'c' r qkuqp 'y cv' chgt'gzeguuk'g'gZR quwtg.'ecp'dg'uvqtgf 'kp' { qwt'dqf { 0'

ÉÁ K'gZR quwtg'v'q'rgcf 'ku'cp'kuwg'kp' { qwt'y qtnr nreg'o cng'uwg' { qw'v'cng'r tqr gt' r tgecwkp'cpf 'y cv' { qw' dgeqo g'hco k'kct'y kj' { qwt'eqo r cp' { u'rgcf 'r q'leku cpf 'r tgegf wtgu0'

ÉÁ Y j gpgxgt'j cpf rkp' 'rgcf 'r tqf weu.'cny c{ u'y gct' i mXgu cpf 'y cuj 'y qtqwi j n' dghqtg'gcvkpi . 'f t'knkpi " qt'uo qnkp' 'dgecwug'k'u'gcu' { v' 'ceekf gpvcn' 'kp' guv'rgcf 'y cv'o c{ 'dg'qp' { qwt'j cpf u0'

ÉÁ F qp)'v'cng'dtgcnu'qt'gc'v'kp'ctgcu'y j gtg'rgcf 'ku'r t'gugpv0' "

☞ **When soldering, additional safety precautions should be followed.**

ÉÁ Rgtuqpcn'r tqgcvkx'g's wkr o gpv'RRG+.'kpenf kpi 'g' { g'r tqgcvkqp.'i mXgu.'cpf 'h'p' 'u'rgxg'uj kpu'uj qwf' dg'y qtp0'

ÉÁ J cxg'c' h'g'gz v'pgwkuj gt 'pgctd { 0'

ÉÁ Cny c{ u't { 'v'y qtn'w'r y kpf 'qt'wug'c' h'p'v'q'f ku'k' cv' rgcf 'hwo gu.'y cv'y kn'dg'i gpgtcvgf 'h'qo 'j gcvkpi " y' g'o cvgtkn' uq'y cv' { qwf qp)'kpj cng'y go 0' "

☞ **When using power machine tools, machine guarding must be used.**

ÉÁ O cng'uwg'o cej kp'g'i wctf u'ctg'kp'y qtnkpi 'qtf gt'y j gpgxgt'wukpi 'r qy gt'o cej kp'g'v'qqu'uwej 'cu'r t'guu' dtcngu'qt'uj gctu0' "

Uj ggv'o gvcn'cpf 'y' g'o cej kp'gu'wugf 'v' h'qto 'k'r t'gugpv'wpls wg'j c| ctf u'pqv'pqto cn' { 'uggp'kp'q'y gt'tqqh'pi " crr' d'ecv'kp'u0'Vcng'gz v'c'v'o g'cpf 'ectg'y j gp'y qtnkpi 'y kj' 'uj ggv'o gvcn'cpf 'uj ggv'o gvcn'hqto kpi 'gs wkr o gpv'uq' { qwf qp)'i gv'dgpv'qwf'qh'uj cr g# "

" "



*Uj ggv'O gxc n'Uchgv 'Vtclpłpi 'Vkr u'*

É' Y kɔj 'c'y j kɔg'tci . 'y k r g'c'r kɔg'q'h'ngcf /eqcvf 'uj gg'v'o gvcn'v'uj qy 'j qy 'gcukn ('ngcf 'twdu'q'h'h'q'h'v'j g'uj gg'v' o gvcn'cpf 'qp'v'j'j' cpf u'qt'em'v'j gu'0

"É""Y j { 'ku'ko r qtvcpv'vq'j} cxg'o cej kpg'i wctf uA'

"É""J qy "ecp"ngcf "i gv"kvq" { qwt"dqf { A"

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **NRCA** COMMERCIAL INSURANCE

## Uqixgpv'Wug''

- ☞ **Solvents are commonly used on the roof as a cleaning agent for tools and equipment, and for single-ply laps before they are glued.**

ÉÁ Rqvgpvcnlf cpi gtu'ctg'htgu."xcr qt'kpj cncvqp."unlp'kttkcvqp."cpf "gpxktqpo gpvcn'j c| ctf u'yj cv'o c{ " tguwn'htgo 'lo r tqr gt'f kur qucnf' "

- ☞ **Most flammable solvents have very low flashpoints and release vapors easily.**

ÉÁ P gxtg'tu qng'qt'j cxg'cp{ "qr gp'hcgo g'ctqwpf "uqixgpw0'

ÉÁ Uqitg'uqixgpw'lp'rdgrgf "uchgw'ecpu0Uchgv' 'ecpu'ctg'o gvcn'cpf "ctg'gs wkr r gf 'y kj "ur ctnictt guvqt " uetggpu'cpf "upwi /hvkpi ."ur tkpi /mqf gf 'hkf u0'

ÉÁ Kc'c'uqixgpv'ur kmu."engcp'wr 'yj g'o gu'ko o gf kcvgn' "cpf "f kur qug'qh'yj g'engcp/wr "o cvgtkcu'lp'c'ugewtg0' hktgr tqqh'eqpvckpgt0'

ÉÁ F q'pqv'cmqy "xcr qtu'vq'eqngev'lp'cp{ "ur ceg'yj gtg'yj gtg'o c{ "dg'qr gp'hcgo gu'qt'ur ctmu."gur gekcm{ " xcr qtu'yj cv'ctg'j gcxlgt'yj cp'ck' "cpf "y kmugwg'qp'yj g'tqqh'uwthceg'qt'qyj gt'uwthceg'ctgcu0' "

- ☞ **Consult with your supervisor before using a solvent in a confined space.**

ÉÁ Kc'c' qwf'q'wug'c'uqixgpv'lp'c'eqphkpgf "ur ceg."o cng'uwg'yj cv'yj gtg'ku'cf gs wcvg'xgpv'kcvqp"qt'yj cv'c' qw' wug'tgur kcvqt{ 'r tqvgev'kp0' "

- ☞ **Make sure to protect your skin from the effects of solvents.**

ÉÁ O quv'uqixgpw'y kmf' gvtq{ "yj g'pcwcn'qkmu"qp{ "qwt'unlp'ecwukpi "kv'q'dgeqo g'f' t{0'

ÉÁ Rtqvgev'c' qwt'j c'pf u'y kj "twddgt'i mxxgu0'

ÉÁ F qp)'wug'uqixgpw'vq'engcp'c' qwt'j c'pf u."qt'cp{ "qvj gt'r ctv'qh'c' qwt'dqf{0' "

- ☞ **Read the Material Data Safety Sheet (MSDS) before using an unfamiliar solvent.**

ÉÁ Vj g'O UF U'y kmf' tqxkf g'cm'tgngxcpv'kphppcvqp'cdqww'yj g'ej go kecn'eqo r qwpf ."lpenmf kpi "kphqo wkvqp" uvej "cu' "

ÉÁ yj g'hcuj "r qkv."cpf "ku'wr r gt'cpf "mqy gt'g'zr mqvqp'iko ku."

ÉÁ cp{ "j gcnj "j c| ctf u."

ÉÁ tgs wktgf "RRG."

ÉÁ engcp/wr "o gyj qf u'cpf "f kur qucn'tgs wktgo gpvu."cpf "

ÉÁ r qvgpvcn'tguwnu'qh'g'zr quwt'g'cpf "htuv'ck' "t'gur qpugu."co qpi "qvj gt'yj kpi u0' "

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*Uqnxgp v'Wug'Vt c k p k p i 'Vkr u'*

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**ALL ATTENDEES MUST SIGN**

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# TOOLBOX TALKS

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## *F ghgpubxg'F t kxpi "*

☞ **Defensive driving is important for the protection of both fellow employees and the general public. "**

ÉÁ K'ku'dguv'q'cng'c'f ghgpubxg'cr r tqcej 'y j gp'f t kxpi 0Dg'qpg'uvgr 'cj gcf 'qh'yj g'qyj gt'f t kxgtu'qp'yj g' tqcf 0'

"

☞ **Always be alert. This is especially important on the way back to the yard or home after a long day on the job.**

ÉÁ Megr 'cy c'f'itqo 'yj qug'f t kxgtu'y j q'ctg'f t kxpi 'wpuchgr 0'

ÉÁ F q'pqv'cknf cvg'qt'ur ggf 0'

"

☞ **Part of defensive driving is taking driving conditions into consideration.**

ÉÁ Ukr r gt'f'qt'le'f'eqpf kxqpu'y kntgs wktg'npi gt'uvr r kpi 'f kxpegu.'uq'kpetgcug'yj g'f kxpegu'dgy ggp' { qwt'xgj keng'cpf 'yj g'xgj keng'kp'itqp'qh'f' qw0'

ÉÁ Dcf'y gcvj gt'eqpf kxqpu'etgcvg'j cxqe'y j gp'tqy kpi 'tckgtu'qt'ngwgu0Ci clp.'kpetgcug'f'hmjy kpi " f kxpegu'cpf 'urjy gt'ur ggf u'ctg'ng' 0'

ÉÁ F c'f'vko g'f t kxpi 'kp'yj g'uwprki j v'ecp'cnq'etgcvg'r tqdrgo u'ht'uo g'f t kxgtu00 cng'uwg'f' qwt' y kpf uj kgrf 'ku'engcp.'cpf 'y gct'uwpi ncuugu0'

"

☞ **Your personal vehicle and your company vehicle probably react differently.**

ÉÁ Ej cpegu'ctg.'f'qwt'ctg'ectt'f'kpi 'j gcxkgt'itqcf u'yj cp'f'qwy qwf 'kp'f'qwt'r gtuqpcn'ect0Xgj keng'y kj " j gcxkgt'itqcf u'tgs wktg'npi gt'uvr r kpi 'f kxpegu0'

ÉÁ kpetgcug'f'qwt'uvr r kpi 'f kxpegu'gxgp'o qtg'kh'f'qwt'ctg'tckkpi 'c'ngwrg.'hwm'qt'go r v' 0'

ÉÁ Rlen0w 'twemu'ecp'dg'iki j v'gpf gf.'gur gekm'f'y j gp'yj g'f'g'go r v' 0Dg'r tgr ctgf 'v'eqo r gpucvg'ht' t gct/y j ggn\$men/wr u\$'cpf 'unkf u.'gur gekm'f'y j gp'tqcf 'eqpf kxqpu'ctg'nguu'yj cp'kf gcn\$uwej 'cu'tclp0' upqy . 'cpf 'leg0'

"

☞ **Defensive driving hinges on the driver's mental state.**

ÉÁ O cng'uwg'f'qwt'ctg'y gnt'guvf'cpf 'kp'i qaf 'o gpvcd'cpf 'r j { ulecn'j gcmj 0'

ÉÁ F q'pqv'f t kx'kh'f'qwt'ctg'wvf gt'yj g'kphwpeg'qh'creqj qn'qt'f'f twi u0Rtguetkr vqap'qt'qxgt/yj g'eqwpgt' f twi u'ecp'cnq'o cng'f'qwt'ctg' u'f' 'uq'dg'ectghw0'

ÉÁ Cxqkf'ci i tguukxg'f t kxgtu0Megr 'f'qwt'vgo r gt'kp'ej gem'gxgp'y j gp'f'qwt'hgn'f'qwt'ctg'tki j v0'

ÉÁ Dg'r tgr ctgf 'v'f'kgrf 'yj g'tki j v'qh'y c'f'gxgp'kh'yj g'qyj gt'f t kxgt'ku'y tqpi 0'

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## *Fghgpukxg'Ftkkpi 'Vtckkpi 'Vku''*

"

É Gpeqwtci g'go r nq{ ggu'q'f'kuewu'uqo g'ceekf gpw'yj g{ 'j cxg'dggp'kpxqkxgf 'y kj . 'kpenwf kpi 'yj qug'cv'y qtn0'

É Fkuewu'j qy 'yj qug'ceekf gpw'eqwf 'j cxg'dggp'cxqkf gf 0'

É Cun'yj g'etgy 'yj g'hqmgy kpi 's wguvqpu<

" É""Y j cv'ctg'uqo g'uki pcn'qh'ci i tguukxg'f tkkpi 'gzj kdkgf 'kp'qvj gt'f tkxgtuA'

" É""Y j cv'ctg'uqo g'qvj gt'eqpf kkkpu'yj cv'y cttepv'yj g'pggf 'hqt'unqy gt'f tkkpi A'

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Cffkkqpcn'Vqr leu'Fkuewugf <aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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### ALL ATTENDEES MUST SIGN

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## Uchgv 'Dgnu'

J cxg{ qw'gxgt'wugf 'cp{ 'qh'y g'hqmy kpi 'cti wo gpwA"

☞ **Á wear my seat belt on long trips, but it's too much of a hassle on short drives.**

ÉÁ O quv'o qvqt'xgj kerg'etcuj gu'qeewt'cv'ur ggf u'qh'47'vq'62'o 0 0 0'

ÉÁ Vj g'o clqtkv{ 'qh'ceekf gpw'cng'r meg'y kj kp'47'o kgu'qh'c'f tkxgtu'j qo g'qt'qhleg0'

ÉÁ "

"

☞ **Á heard it's better to be thrown from your vehicle in a serious crash.**

ÉÁ Cukf g'htqo 'y g'uj ggt'nxpce{ 'qh'f gekf kpi 'y cv'k'y qwf 'dg'dgwgt'v'dg'"  
ecvr wngf 'y tqwi j 'y g'y kpf uj kgrf 'qh'c'xgj kerg'cv'82'o 0 0 0'f tkxgtu'"  
y j q'\$gzks'y gk'xgj kergu'f wt kpi 'c'etcuj 'ctg'htq'v'o gu'cu'"  
rkngn{ 'v'f kg.'wuwcm{ 'htqo 'j cxkpi 'y g'xgj kerg'tqni'qxgt'"  
qp'y go 0'

"

"

☞ **Át's uncomfortable.**

ÉÁ [ qw'mli gv'wugf 'v'k'cpf 'y qp'xgxp'pqvleg'chgt'c'y j kg0'

ÉÁ Dtqngp'dqpgu.'r cten{ uku.'tcevkqp.'cpf 'uwti gt{ 'ctg'cm'b vej 'o qtg'wpego hqtcdrg0'

"

☞ **Áa seat belt is a quick, easy, and inexpensive way to preserve your life.**

☞ Á6022'r gqr rg'f kg'gcej "{ gct'dgecwug'y g{ 'y gtg'lp'o qvqt'xgj kerg'etcuj gu.'cpf 'f gekf gf 'pqv'v'y gct"  
vj gk'ugcv'dgmu0'

"

"

Rws kpi "qp">{ qwt'ugcv'qgn'ku'r tqdcdn{ 'y g'gculguv'cpf 'hgcuv'gzi gpukxg'hqpp'qh'r tqvgevkqp'cxckcdng'vq'{ qv0l{ qw'  
j cxg'r tqdcdn{ 'j gctf 'uqtlgu'cdqwr'gqr rg'y j q'f kgf 'lp'y gk'ectu'dgecwug'y g{ 'y gtg'y gctkpi 'y gk'ugcv'dgmu'"  
cpf 'o c{ dg'{ qwj' cxg'dggp'wukpi 'y ku'cu'cp'gzewug'vq'pqv'v'y dwemg'wr =dw'v'y gug'ecugu'ctg'uq'tctg'y cv'y g{ 'ctg'"  
pqv'gxgp'y qt'y 'o gpvkpki 0Vj qwuopf u'o qtg'f kg'dgecwug'y g{ 'ctg'pqv'y gctkpi 'y go 0Ugcv'dgmu'f q'ucxg'hkxgu##

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## *Ugcv'Dgnu'Vtcklpi 'Vku''*

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É' Cum'ij g'hqmy kpi 's wgu'kpu<

" É""J qy 'o cp{ 'qh'{ qw'y gct 'ugcv'dgnuA"Y j { "qt"y j { "pqvA"

" É""J cu'cp{ qpg'gxgt'dggp'k'c"ukwcvkp'y j gtg'c'ugcv'dgn'j cu'j gnr gf 'q'r t'gxgpv'cp'kplwt { ."qt"ucxg'c'rhgA"

" É""Y j q'j cu'dggp'kengvf 'hqt'pqv'y gctkpi 'c"ugcv'dgnA"

"

P qvgu<

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"F cvg " "Uki pcwtg'qh'Rt gupvgt"

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Cff k'kqpcn'Vqr leu'F k'ewugf <aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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### ALL ATTENDEES MUST SIGN

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## Vt wem Nqc f kpi "

J c x g { q w' g x g t' w u g f' c p { ' q h' y j g' h q m y k p i' c t i w o g p w A' "

☞ **All roofing companies use trucks to haul roofing materials to the job sites. The trucks come in a variety of sizes and can be loaded by hand or by using mechanical assistance, such as a forklift.**

"

☞ **The Occupational Safety and Health Administration (OSHA) requires forklift operators to be trained.**

☞ **A** p' c f f k k q p' q' t c k p k p i . " Q U I C' t g s w k t g u' y j c v' y j g' h q t m k h' d g' g s w k r g f' y k j " q x g t j g c f' r' t q v g e v k p p' c p f' " d c e m' w r' c r e p p u . c p f' y j c v' u g e v' d g n u' d g' w u g f' h' y j g' h q t m k h' k u' u q' g s w k r g f' O'

☞ **A** j g p' t c x g n k p i' y k j' c' m q c f . " n g g r' k' c u' e m u g' v' y j g' i' t q w p f' c u' r' q u u k d r g O' k' y j g' m q c f' k u' v q q' j' k i j . ' k' e c p' " e c w u g' y j g' h q t m k h' v' q' w k' O'

☞ **A** m g g r' y j g' u r g g f' q h' y j g' h q t m k h' v' q' c' o' k p k o' w o' y j g p' k' k u' e c t t { k p i' c' m q c f' O'

☞ **A** o c n g' u w t g' y j g' h q t m k h' k u' t c v g f' h q t' y j g' m q c f' u' k' y k n i' h k h' O' Q x g t m q c f' k p i' y k n i' e c w u g' y j g' h q t m k h' v' q' w k' O'

☞ **A** p' g x g t' h k h' q t' c m q y' r' g q r' g' v' q' t c x g n k p p' y j g' h q t m O'

"

☞ **When loading the truck by hand, be sure to use proper lifting techniques.**

☞ **A** u t g v e j' d g h q t g' h k h' k p i' v' q' h k o' d g t' w r' { q w t' o' w u e r g u O'

☞ **A** g v' e m u g' v' y j g' m q c f' . " h k h' y k j' x q w t' r g i' u . " n g g r' y j g' p c t w t c n i' e w x g' k p' { q w t' m y g t' d c e m' c p f' f' q' p q v' y k u v' { q w t' d c e m' O' C u m i' h q t' j' g r' y j g p' y j g' m q c f' k u' j' g c x { ' q t' d w m f' O'

☞ **A** j g p' m q c f' u' p g g f' v' q' d g' e c t t k g f' q x g t' m q p i' f' k u c p e g u . " w u g' o' g e j' c p k e c n f' g x l e g u' u w e j' c u' e c t w' q t' j' c p f' " t w e m O'

☞ **A** k' f t c i' i' k p i' u q o' g y k p i' q h' h' q h' c' t w e m' t g o' g o' d g t' y j g t g' y j g' g f' i' g' k u' c p f' d t c e g' { q w t u g h' v' q' c n g' y j g' m q c f' O'

"

**Before leaving the yard, make sure the drivers and those responsible for loading have met Department of Transportation (DOT) requirements.**

☞ **A** n q c f' u' o' w u v' d g' u g e w t g f' v' q' r' t g x g p v' u j' k h' k p i' q t' f' k u r' n e g o' g p v O'

☞ **A** c h a t' 47' o' k r u' q h' t c x g n' y j g' m' O' f' o' w u v' d g' e j' g t' O' g f' v' q' o' c n g' u w t g' k' k u' j' s s u k n i' u g e w t g' O'

☞ **A** t q r' c p g' d q w u g u' o' w u v' d g' u g e w t g f' w r' t k i' j' v' y k j' y j g' q w h' m y' x c r x g' r' n i' i' g f' O'

☞ **A** r r e c t f' u' c t g' p g g f' g f' h q t' o' q t g' y j c p' 3222' r' q w p f' u' q h' c' j' c l' c t f' q w u' o' c v g t k e n' c p f' y j g' f' t k x g t' o' w u v' j' c x g' c' " e q o' o' g t e k n f' t k x g t u' h e g p u g' " E F N- O'

☞ **A** r g o' g o' d g t' v' q' h k m' q w' y j g' f' c k n f' x g i' k e n g' k p u r' g e v k p p' t g r' q t v O'

☞ **A** o c n g' u w t g' { q w' j' c x g' { q w t' u j' k r r' k p i' r' c r' g t u' h k m g f' q w' e q t t g e v f' O'

"

"



*Vt wem Nqc f k p i 'Vt c k p i 'V k r u''*

É' K'j gtg'ku'c'ɨcf gf 'tven'cv'j g'lqdukg.'wug'k'v'q'g'zr nkp'j qy 'k'y cu'ɨcf gf 'cpf'j qy 'ksu'eqpvgpw'y gtg' ugew'gf 0'

É' Uj qy "go r m{ ggu'y j gtg'r nectf u'pggf "vq"dg'r nectf "qp"v j g"tvemO'

É Cum'ij g'hqmqy kpi 's wguvqpu<

" É""Qpeg"qp"y j g"tqcf."y j gp"ku"y j g"f tkxgt'hktuv'tgs wktgf "vq"uvqr "cpf "ej gem'y j g"mqcf A"

"É"Yj { 'f'q"q'w'y cpv'q"nggr "mqf u'cu'my "cu'r quukng"qp"o q'x'pi "h'qtmkhuA"

$P \leq q \vee g \leq u$

[illegible]

CffkqpCnVqr leu'F kuewuf <"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

**ALL ATTENDEES MUST SIGN**

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## *Xgj kerg'O clpvgpcpeg''*

☞ **At pays to be proactive, rather than reactive, with vehicle maintenance.**

☞ At "gs wkr o gpv'y kn'icuv'mpi gtO'

☞ At "eqo r cp{ 'xgj kergu'y kn'dg'o qtg'f gr gpf cdmO'

☞ At o r m'o clpvgpcpeg'ecp'dg'f qpg'qp'yj g'lqd'ukgO'

"

☞ **Be familiar with the recommended maintenance program from the operator's manual so that you can alert the mechanic when it's time to do a thorough inspection.**

☞ **There are some simple steps that you can take before starting the vehicle each day to keep it in great condition.**

☞ At go qxg'tcuj "qt'qvj gt'qdlgevu'uwej 'cu'tci u.'vqnu."cpf "eqhgg"ewr u'htqo 'yj g'twenO'

☞ At qqm'cv'yj g'eqpf kkp'qh'yj g'ugcv'dgmuO'K'yj g{'ctg'y qtp'qt'htc{ gf.'tgr qt'v'kv'q'{'qwt'uwg'gtxkuqt'"  
lo o gf kcvgn{ O'

☞ At qqm'w'pf gt'yj g'j qpf "cpf 'ej gem'qk'icpf "qvj gt'hmkf 'hgxgmuO'gr rceg'yj g'hmkf u'cu'pggf gf O'

☞ At {"qwt'eqo r cp{ "qt'yj g'F gr cpo gpv'qh'Vtcur qt'cvkqp'tgs wkt gu'kv'o cng'uwg'yj cv'{'qw'j cxg'c'hkg'"  
gz v'kpi wkuj gt'qp'dqctf O'

☞ At j gem'q'v'o cng'uwg'{"qw'j cxg'hkt gu'qt'tghge'v'kg'f gxleguO'

☞ At zco kpg'yj g'v'kgu'hqt'tgcf 'y gct'cpf 'dcnf kpi 'ctgcuO'gr qtv'cp{ 'r tqdngo u'v'q'{'qwt'uwg'gtxkuqtO'

☞ At cng'uwg'yj g'v'kgu'ctg'r tqr gtn{ 'kphrcv'gf O'

"

☞ **Check the instrument panel and all warning lights after starting the vehicle.**

ÉÁ O cng'uwg'yj g'i cwi g.'ctg'r tqxkf kpi "pqttpcn'tgcf kpi uO'

ÉÁ F q'c's wleniej gem'qh'yj g'f ghtquvgt.'j gcvgt.'j qtp.'hki j w'cpf 'y kpf uj kgrf 'y kr gtuO'

ÉÁ Ej gem'yj g'uvgtkpi "cpf 'dtcng'qr gtcv'kpuO'

"

Qwt'xgj kergu'o c{ 'dg'qwt'ukpi ng'o quv'ko r qt'w'p'r kgeg'qh'gs wkr o gpv'y kj qw'yj go 'y g'ecppqv'f q'qwt'lqduO'  
Tgi wkt'r t'gxgpcv'xg'o clpvgpcpeg'y kn'j gr 'g'puwtg'yj cv'yj g{'y kn'inggr 't'wppkpi 'y gmi'ht'c'kpi 'ko g.'cpf 'y kn'  
cnq'g'puwtg'yj cv'yj g{'ctg'uchg'gpqwi j 'hqt'wu'v'q'f tkxgO'

"

"



*Xgʲ kɛŋ' O c k p v g p c p e g' V t c k p k p i 'V k r u'*

É F go qpwtcw"cfck{ "xgj keng'kpur gevqp0'

É' Uj qy "go r m { ggu" qy "q'r gthqto "cp { "o clwpcpeg" { qw'y cpv'y go "q'dg"cdng"q'r gthqto O'

É Cum'ij g'hqmqy kpi "s wguvqpu<

"É<sup>11</sup>Y j cv'ctg'uqo g'ctgcu'v'ej gem'f w'koi 'v j g'f ckn('xgj keng'o k'p'wpcpeg'ej gem'A"

"É""Y j { 'f qgu'kv'o cng'ugpug'vq'ej gem'vj g'xgj kengu'qxgt'kpugcf 'qh'lwuv'ngwpi 'vj g'o gej cple'gz co kpg'kv"

""y j gp"vj gtg)u"r tqdngo A"

P q v g u <''

```
aaaaaaaaaaaaaaaaaaaaaaaaaaaaa'aaaaaaaa'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"
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\*\*\*\*\*F cvg'\*\*\*\*\*Uki pcwtg'qh'Rt gugpvt "

Cffklqpcn'Vqr leu'F kuewugf <"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

### ALL ATTENDEES MUST SIGN





# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Y cvgt 'Fco ci g'Rt gxgp vkqp''

Y cvgt 'fco ci g'ku'qpg'qh'vj g'dki i guv'hgctu'qh'tqqh'kpi 'eqpvtcevtu'OKu'qh'gpc'tceg'ci clpuv'O qvj gt 'P cwtg'q'i gv' c'tqqh'kpi'r'neg'dghqtg'tclp'qt'upqy 'eqo gu'OO cnkpi 'uwtg'c'r'ct'vcm{/f qpg'tqqh'ku'y gm'eqxgtgf 'cpf 'y cvf'tclpu' ctg'gh'vpr nmi i gf 'ctg'uqo g'qh'vj g'dki i guv'eqpegtpu'cv'vj g'gpf 'qh'vj g'f'c{OGxgp'qpg'o kucng'ecp'tguwn'lp'c" eqmcr ugf 'qt'fco ci gf 'tqqh'u'ungo . 'cpf 'y cvgt/rqi i gf 'qh'hegu'qt'j qo gu'

"

☞ **Always keep an eye on the weather, especially during tear-offs.**

ÉÁ Ej gen'vj g'y gcvj gt 'hqtgecu'v'kuv'vj kpi 'lp'vj g'o qtpkpi 'cpf 'h'gs wgpwn'vj tqwi j qw'vj g'f'c{O'

ÉÁ Nkuvp'q'c'y gcvj gt 'tcf'kq'qt'tgi wactn' 'ej gen'vj g'vgr j qpg'y gcvj gt 'hqtgecu'v'v'

"

☞ **Be prepared for bad weather.**

ÉÁ Mggr 'r'ruke'ctr u'qp'j cpf O'

ÉÁ Ku'dguv'q'eqxgt 'ugpukxg'gs wkr o gpv'lp'vj g'dwkr kpi 'dghqtg'vj g'lqd'gxgp'uwtu'dw'kh'q'w'f'qp'vj gp'dg' tgc'f{'q'f'q'lp'cpf 'eqxgt'k'h'k'uwtu'tclp'kpi 'y j gp'vj g'tgu'pqv'eqo r'rgv'r'tqvev'qp'vj g'tqqh'o'

ÉÁ P qvg'cpf 'f'qewo gpv'r'tgxkqu'y cvgt 'fco ci g'lp'vj g'dwkr kpi 'uq'q'w'eqo r'cp{'ku'pqv'j grf 't'gur qpukdng' hqt'gz'kukpi 'fco ci g'o'

"

☞ **Keep drains clear of debris.**

ÉÁ O cng'uwtg'vj cvf'tclpu'ctg'vpr nmi i gf 'f'wtkpi 'tclp'cpf 'y j gp'vj g'etgy 'hgcxgu'vj g'dwkr kpi O'

"

☞ **Never ever leave the roof open.**

ÉÁ Gxgp'kh'vj g'hqtgecu'ku'ergct. 'f'q'pqv'rgcxg'vj g'tqqh'qr gpO'

ÉÁ Cm'ctgcu'qh'vj g'tqqh'o wuv'dg'y cvgt/wi j v'cv'vj g'gpf 'qh'vj g'f'c{O'

ÉÁ Tqqh'vg/ku'uj qwf 'dg'lpur gevg'f'dghqtg'q'w'cpf'q'w'eqy qtngtu'rgcxg'vj g'lqdukgO'

"

"

☞ **The building owner or plant manager should be given a 24 hour emergency number where he or she can reach a field supervisor.**

ÉÁ [ qwt 'herf 'uwr gtxluqt'y kmj cxg'ceegu'v'q'r'ruke'ctr u'us wggi ggu. 'y cvgt'xcewwo u. 'cpf 'cp{'qvj gt' gs wkr o gpv'y j ksj 'o c{'dg'pggf gf 'lp'ecug'qh'c'y cvgt 'fco ci g'go gti gpe{O'

"

"









## Y gc vj gt ' 'Rgt uqp c n k p l w t { ' ' }

☞ **An some northern climates you may be working in dangerously cold temperatures.**

ÉÁ F tguu'y cto n{ 'd { 'rc { g t k p i 'emvj k p i O' }

ÉÁ Rtqygev" { q w ' j g c f . ' j c p f u ' c p f ' h g g v O' }

ÉÁ Dg'crgt v h q t ' u k i p u ' q h ' h t q u p k ' / ' ' k p i n k p i . ' d w t p k p i . ' p w o d p g u u ' / ' v j c v ' e q w r f ' r g c f ' v q ' h t q u d k s g O' }

ÉÁ Dg'cy ctg' q h ' h t q l g p ' u w t h c e g u ' y j g t g ' k ' o k i j v ' d g ' u n k r g t { . ' g u r g e k c m { ' c v ' v j g ' t q q h ' g f i g ' c p f ' q p ' u w g g r / u n r g ' t q q h u O' }

"

"

☞ **During the summer months, and year-round in some southern climates, temperatures can hover in the 90's and the 100's.**

ÉÁ N k i j v ' e q m t g f ' e m v j k p i ' c p f ' c ' j c v ' y k j ' c ' d t k o ' y k m j g r ' v q ' r t q y g e v ' { q w ' h t q o ' j c t o h w i ' W X ' t c { u . ' c p f ' y k m i c e w c m { ' h g g r ' { q w ' e q q r g t ' v j c p ' k h ' { q w ' f k f p ' v ' y g c t ' c ' j c v ' q t ' u j k v O' }

ÉÁ V c n g ' h t g s w g p v ' d t g c m u ' c p f ' f t k p m i h q u ' q h ' y c v g t O' }

ÉÁ K i { q w i g v ' e t c o r u ' q t ' h g g n ' g z j c w u g f . ' u g g m l u j c f g ' q t ' c k t / e q p f k k q p k p i O' }

ÉÁ K i { q w ' p q v g ' u k i p u ' q h ' j g c v ' u t q n g ' / ' f t { . ' t g f ' u n k p ' c p f ' u t c p i g ' d g j c x k q t ' / ' k p ' c p { ' q h ' { q w ' e q / y q t n g t u . ' i g v ' v j g o ' e q q r g f ' f q y p ' k o o g f k c v g n { ' c p f ' e c m i ' c p ' c o d w r e p e g O' }

ÉÁ C x q k f ' e c h h g k p s ' c p f ' c r e q j q n ' v j g ' p k i j v ' d g h t g ' c ' j q v f c { O' }

"

☞ **Summer brings not only high temperatures, but also thunderstorms.**

ÉÁ M e g r ' v c d u ' q p ' v j g ' y g c v j g t ' h q t g e c u v ' c p f ' d g ' r t g r c t g f ' v q ' s w k e m { ' u g e w t g ' v j g ' l q d ' u k g ' c p f ' g x c e w c v g ' v j g ' t q q h O' }

ÉÁ J k i j ' y k p f u O t c k p O c p f ' j c k i ' y k m i o c n g ' v t c x g t u k p i ' v j g ' t q q h ' c p f ' e r k o d l p i ' v j g ' r c f f g t ' x g t { ' f c p i g t q w u O' }

ÉÁ N k i j v p k p i ' u t k n g u ' c t g ' q h g p ' h c v r O' }

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V g o r g t c w t g u ' v j c v ' c t g ' g z v t g o g n { ' j k i j ' q t ' i q y ' e c p ' j c x g ' o c l q t ' g h g e w u ' q p ' { q w ' d q f { ' u ' v g o r g t c w t g ' t g i w r e k p p ' u { u g o . ' c p f ' c f x g t u g ' e q p f k k q p u ' e c p ' o c n g ' v j g ' y q t n i u k g ' r q v g p v k m { ' f c p i g t q w u O G p l q { ' v j g ' h c e v ' v j c v { q w ' y q t n i q w f q q t u . ' c p f ' v c n g ' r t g e c w k q p u ' u q ' v j c v { q w ' e c p ' g x g p ' g p l q { ' v j g ' f c { ' u ' v j c v ' c t g ' r c p l e w r t n { ' j q v ' q t ' e q r f O' }

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É Uj ctg'cp{'eqo r cp{'j kñqt{'y kj 'y gc yj gt'r tqdngo u0'

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# TOOLBOX TALKS

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## ***Rwdnke 'Rt qvgevdkqp ''***

☞ **As important as it is to safeguard your coworkers from injury, it is equally important to protect the public from the activities we are performing.**

☞ **Separating the public from the hazards as much as possible reduces the chances of injury."**

ÉÁ Cu'o wej "cu'r quukdrg."hgr "f wo r ugtu."etcpgu."eqpxg{ qtu."j qkxu."tcuj "ej wgu"cpf "ngwrgu"cy c{ "Itqo " y kpf qy u0gptcpegu0ukf gy cmu"cpf "utggwu0"

ÉÁ Kk'kai"vqq"ko r tcevecln"v"nggr "y g"ngwgn"cy c{ "Itqo "y gug"ctgcu."y gp"dccttlecf g"y go "q"nggr "y g'r wdne" qw0"

ÉÁ Y j gp"y qtnkpi "pgct"gpvcpegu"gttgev"uwtf { "ecpqr kgu0"

☞ **Working at schools poses even more problems because there are curious children in the area. Extra precautionary steps should be taken when on school property. If a child is hurt, negative media and potential lawsuits will probably follow.**

ÉÁ Vcng"rcf fgtu"fy p"cv'y g"gpf "qh'y g"fc{ "cpf "nem'y go "wr 0"

ÉÁ Mgr "hco o cdrg"o cvgtkcu."uwej "cu'i cuqndpg"qt"r tqr cpg."kp"ugewt g"ctgcu."qt"tgo qxg"y go "Itqo "y g'ukg" gcej "pkj 0"

ÉÁ Ngem'ngwrg"rkf u"cpf "qwhny "xcrgu"cv'pki j v0"

ÉÁ K'xgj kengu"qt"uko krt "gs wkr o gpv'ctg"ngh"qxgtpki j v."o cng"uwg"v"tgo qxg"y g"ng{ u"cpf "nem'y g"fqqtu0"

☞ **When working on the roof, remember that parking lots are usually below.**

ÉÁ Dg"cy ctg"qh"tr tc{ "eqcvkpi u"cr r rkgf "q"y g'tqqh"y cv'ecp"gpf "wr "qp"ectu0"

ÉÁ Wukpi "tqqh'ewwgtu"qt"qvj gt"o gej cplecni'gs wkr o gpv'ecp"ecwug"hn{ kpi "f gdtku"y j kej "o c{ "ecwug"fc co ci g" q"y g'ectu0"

ÉÁ Vj tqwi j qw"y g'r tqlgev."cpf "gur gekm{ "cv'pki j v."o cng"uwg"y cv'cm'kgo u"ngh"qp"y g'tqqh'ctg"ugewt g" uq"y cv'y g{ "f q"pqv'dgeqo g"cktdqtpg"cpf "rcpf "qp"xgj kengu"kp"y g'r ctnkpi "rqv0"

O cng"uwg"y g'r wdne"ku'r tqvgev"f "Itqo "{ qwt"eqo r cp{ u"tqqh"y "qr gtcv'kpu0F co ci g"v"r gtupen'r tqr gp{ "qt" kplwt{ "v"o go dgtu"qh"y g'r wdne"y knitgh'gev'r qqtnt{ "wr qp"{ qwt"eqo r cp{ 0"



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## *Rwdnē 'Rt qvgevkqp 'Vt ckp kpi 'Vkr u'*

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É J cxg'dcttlecf g'vr g'qt'hci i kpi 'cxckrdng'vq'uj qy 'vq'go r nq{ ggu0'

É Cun'ij g'hqmy kpi 's wguvkpu<

" É""Y j cv'tg'uqo g'qvj gt'r kgegu'qh'o gej cplecn'gs wkr o gpv'ij cv'ecp'o cmg'tqqh'f gdtku'cktdqtpg.'ecwukpi '""  
""r tqr gtv{ 'f co ci gA'

" É""Y j cv'tg'cm'qh'ij g'y c{u}{qw'eqwf "dcttlecf g'cp'ctgc"qh'h'ltqo 'ij g'r wdneA'

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**NRCA'S Series of Toolbox Talks**

**In**

**Spanish**





# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

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Ng'ci tcf gego qu'uw'f geku'p'f g'eqo r tct'rc'ugt'kg'Ri'f'v'ecu'f g'J gttco kgp'cu'f \$Vqqrldqz 'Vcmu\$+f g'P TECO'  
S wku' tco qu'dt'kp'f c'trg'eqpuglqu'An'gu'r c'tc'uw'r t'gugp'ceku'p'c'uw'u'ewcf t'krcu'0'  
"

**Cada una de las Pláticas de Herramientas se ha estructurado para permitir varios estilos de presentación.**

✓ "" Uk'c'Wf . 'hg'i wux'r t'gugp'vct'uw'u'uguk'p'gu'f g'g'pvt'gpc'o kgp'vq'w'ucp'f q'uw'u'r t'qr'ku'r c'rcd'tcu . 'glgo r nqu . " { 'v'cn'x'gl " c'ri q'f'g'j' wo qt . 'gp'v'p'egu'ig'c'p'ko co qu'c's w'g'iq'j' ci c'OGp'rc'o c' { qt'f'f'g'rcu'Ri'f'v'ecu . 'rc'k'phq'to c'ek'p'ug'j' c' " c'tt'gi r'cf'q'f'g'v'cn'hq'to c's w'g'Wf'0'r w'gf'c'ugi w'kt'g'ri'h'w'q'f'g'rc'k'phq'to c'ek'p' { 'f'g'w'c'ect'iqu'r w'p'v'qu'ko r qt'w'p'v'gu . " { 'c'ri' o kuo q'v'kgo r q'w'uct'uw'u'r t'qr'ku'r c'rcd'tcu'0' "

X'Rqt'iq'i' g'p'gt'cn'iqu'r w'p'v'qu'r t'k'p'ek'r c'rgu'gu'p' p'g'p'ig'v'c'p'gi t'c' { 'u'ki w'gp'c'ri'f'f'eq'p'q'f'g'ri'f'g'f'q'0' "

X'Nc'k'phq'to c'ek'p'f'g'w'qr qt'v'g'ug'g'uet'kd'g'c'ri'h'cf'q'f'g'ri'qu'r w'p'v'qu'p'gi t'qu . 'eq'p'rcu'r c'rcd'tcu'q'f'ic'ugu'en'x'gu' " " " " uwd'tc' { c'f'cu'0' "

✓ "" Uk'Wf'0'p'q'r t'gh'kt'g'\$k'p'x'g'p'vct'\$g'p'v'p'egu'r w'gf'g'ugi w'f'g'ri'v'g'z'v'q'ko r t'gu'q . 'g'ri'ew'cn'gu'p' "g'uet'k'q'eq'p' " h'ic'ugu'eqo r n'g'cu'0' "

✓ "" Ugc's w'g'w'ug'uw'u'r t'qr'ku'r c'rcd'tcu'q'ugc's w'g'ig'c'f'g'ri'v'g'z'v'q . 'eq'p'x'k'p'g'r g'tu'q'p'c'ri'k' c't'rcu'ig'ee'k'p'gu'0'Rqt' " "

" glgo r nqu . 'gp'w'wi' c't'f'g'f'ge'f'f' \$u'w'go r n'g'cf'qt . \$f'f'gek'f'\$G'ri'U'0'L'q'p'gu . )'q'gp'w'wi' c't'f'g'\$g'ri'g'p'ect'i' c'f'q'f'g'rc' " "

" e'c'ri'f'g'tc . \$w'uct'g'ri'p'q'o dt'g'f'g'uw'r g'tu'q'p'c'ri'c'ect'i' q'f'g'rc'ec'ri'f'g'tc'0'G'p'v'g'o " a' u't'g'rg'x'c'p'v'g's w'g'j' ci c'g'ri' " "

" g'p'v'g'p'co kgp'v'c'rcu'g'z'r g't'k'g'p'ek'cu'f'g'rcu'ew'cf t'krcu' . o " a' u'r t'q'd'cd'rg'gu'i' w'g'r t'g'ug'p'c'v'g'p'ek'p'0' "

**Recomendamos que haga fotocopias de la cara de la Ri'f'v'ecu'f'g'J gttco kgp'cu' que Ud. estará presentando para que cada empleado pueda tener una copia.** "Ug'j' c'p'ko r t'ko k'f'q'gp'r c'r g'ri'f'g'c'nc'ec'ri'f'c'f' " r c'tc's w'g'rcu'h'q'w'eq'r kcu'uc'ri' c'p'd'k'gp . " { 'r c'tc's w'g'Wf'0'r w'gf'c'i' w'ct'f'c't'rc'eq'r k'c'q't'ki k'p'c'ri' c'tc'w'u'qu'h'w'w't'qu'0' " "

**El dorso de cada Ri'f'v'ecu'f'g'J gttco kgp'cu' contiene dos secciones. El dorso no necesita copiarse para los empleados, pero Ud. debe sacar una copia para que los empleados la firmen para sus archivos** " "

✓ "" Nc'r t'ko g'tc'uge'ek'p'gu'w'p'c'uge'ek'p'f'g'\$E'q'p'ug'l'qu'f'g'G'p'v'g'p'co kgp'v'q'\$r c'tc'Wf'0'g'ri's w'g'r t'gug'p'v'c'0'Nqu' " eq'p'ug'l'qu'f'g'g'p'v'g'p'co kgp'v'q'u'q'p'k'f'g'cu'r c'tc'0'rc'g'p'ug'o' c'p'l'c'r'qt' "o' g'f'k'q'f'g'rcu'g'z'r g't'k'g'p'ek'cu'r t'a'ew'ecu . 'cu'f'eqo q' " c'ri w'p'cu'r t'gi w'p'cu'w'wi' g't'k'f'cu's w'g'j' c'eg't'rg'c'rc'ew'cf t'krc'0'P q'u'q'p'd'q'us w'gl'qu'f'g'e'»o q'Wf'0'f'gd'g'r t'gug'p'v'c't'rcu' " Pláticas de Herramientas . "u'k'p'q's w'g'u'q'p'uko r n'gu'rk'cu'f'g'u'wi' g't'g'p'ek'cu'0'Uk'Wf'0'v'k'p'g'k'f'g'cu'f'k'ht'g'p'v'gu'f'g'rcu's w'g' " c'r c't'g'eg'p'gp'rc'rk'uc . 'u'wi' g't'k'p'qu's w'g'rcu'w'ug' " { 'f'g'j' g'ej'q . 'ig'c'p'ko co qu'c's w'g'k'p'x'g'p'v'g'v'z'ep'k'cu'f'g'g'p'v'g' / p'co kgp'v'q' { 'r t'gi w'p'cu'c'f'k'ek'p'c'gu'r c'tc'f'g'ur g't'v'c't'g'ri'k'p'v'g't'2 u'gp'uw'c'w'f'k'q't'k'q'0' " "

✓ "" Nc'ugi w'p'f'c'uge'ek'p'f'g'ri'f'q'tu'q'f'g'ec'f'c'Plática de Herramientas"gu'w'p'c'j' q'lc'f'g'c'uk'w'g'p'ek'0'Gu'ko r qt'w'p'v'g' " s w'g'Wf'0'c'ugi w'g's w'g'ec'f'c'go r n'g'cf'q's w'g'c'uk'uc'r q'pi c'uw'h'ko c'gp'g'ri'f'q'tu'q'f'g'uw'h'q'p'p'w'v'c't'k'q'h'q'w'eq'r k'cf'q'r c'tc' " s w'g'Wf'0'v'pi c'w'p'c'eq'p'uc'p'ek'f'g'rc'ug'uk'p'f'g'g'p'v'g'p'co kgp'v'q . 'rc'h'g'c'gp's w'g'w'x'q'w'wi' c'p' { 'uw'p'q'o dt'g' " \*q'g'ri'p'q'o dt'g'f'g'rc'r g'tu'q'p'c's w'g'r t'gug'p'w'rc'k'phq'to c'ek'p'0' " "

*Nosotros creemos que Ud. encontrará que estas Pláticas de Herramientas específicas para techos resultarán útiles y completos. Si Ud. tiene cualquier pregunta acerca de la manera de presentarlas, favor de comunicarse con el departamento de reducción de riesgos en el 800/323-9545. Además, no dude en llamarnos con sugerencias para Pláticas de Herramientas adicionales.*





# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## **KPFKEG''**

### **Seguridad de Equipo**

30Á O qpwecti cu"  
40Á Ugi wtkf cf "f g'Guecrgtcu'f g'O cpq"  
50Á Gueqdcu'f g'O qvqt "  
60Á Eqtvcf qtgu'f g'Vgej qu"  
70Á Cpf co lqu"  
80Á J gttco kpvcu. "K r wncf cu'r qt "O qvqtgu'f g"  
I cuqrlpc" "Gfextlecu"  
90Á J gttco kpvcu'f g'O cpq"  
: 0Á J gttco kpvcu. "P gwo "alecu" "Ceekqpcf cu"  
r qt "R»rxqtc"  
; 0Á Ugi wtkf cf "f g'I tÀc "O qpvcf c'gp'Eco k»p"  
"

### **Protección Contra Caídas**

320Á Ungo c'Rgtuqpcn'f g'Cttguv'f g'Ec'f cu"  
330Á Qr el»p "f g'Rtqvgeek»p "f g'Ec'f cu"  
Tgukf gpekgu"  
340Á Ungo c'f g'Xki krpelc "f g'Ugi wtkf cf "  
350Á Ertcdq { cu" " "Cdgtwtcu'gp'Vgej qu"  
360Á Ungo cu'f g'N'pgcu'f g'Cf xgtvpekc"  
"

### **Prevención de Incendios**

370Á Ugi wtkf cf "Gfextlecu"  
380Á Grgi k "grGz vpvqt "Eqttgeqv "Eqpvc "Kpegpf kqu"  
390Á N'p wtkf qu "Kphco cdrgu" " "Ego dwukdrgu"  
3: 0Á Ugi wtkf cf "f g'Uqr ngv "Qz "f gpq/Cegwrgpq"  
3; 0Á Ugi wtkf cf "Eqp "Rtqr cpq"  
420Á Ungo cu'Cr rkecf qu "Eqp "Uqr ngv"  
"

### **Comunicación de Peligros**

430Á Ego wplece»p "f g'Rgrki tqu"  
440Á qlc "f g'F cvqu'f g'Ugi wtkf cf "f g'O cvgtkrgu"  
"

### **Seguridad de Asfalto Caliente**

450Á S wgo cf wtcu'f g'Cuhcnq "Emkpgv"q "DgvÀp "f g"  
Cn» wkt "p "f g'J wnc"  
460Á Rtqvgeek»p "f g'Cuhcnq "Ecnkpgv"  
470Á Ugi wtkf cf "f g'Cuhcnq "Ecnkpgv"  
480Á Vwdq "Ecnkpgv. "Gn"  
490Á Qr gtcekpgu'f g'Ecnf gtc " "Rtgr ctcek»p "g"  
Kplekq"  
4: 0Á Qr gtcekpgu'f g'Ecnf gtc " "Ecti ct. "Rtngxpk"  
Kpegpf kqu" " "Cr ci ct"  
4; 0Á Nwi i gtu\$ " " "Ecttkqu'f g'Vter gct"  
"

### **Asuntos Diversos de Limpieza**

520Á Cuwpvqu'F k»gtuqu'f g'Nko r kgl c"  
530Á T go qek»p "f g'Dcuwtc "f gn'Vgej q"  
"

### **Equipo de Protección Personal**

540Á Rtqvgeek»p "Qewrt"  
550Á wcpvgu. "Tqr c" " " " cr cvqu"  
560Á Ecuequ'f g'Ugi wtkf cf "  
570Á Rtqvgeek»p "f g'Cwf lek»p"  
580Á Gs wkr q "f g'Rtqvgeek»p "Rgtuqpcn"  
"

### **Seguridad Personal**

590Á Rtngxpe»p "f g'Ngukppgu'c "rc "Gur crf c"  
5: 0Á T gur qpucdkkf cf gu'f gn'Go r rncf q"  
5; 0Á H»ki c "Rqt "Ecnrt"  
620Á Rc { cu'f cu"  
630Á Ugi wtkf cf "Hwgtc "f gn'Vtedclq"  
640Á Ugi wtkf cf "Eqp "Ej cr c "f g'O gvcn"  
650Á Wuq "f g'Uqrxgpvgu"  
"

### **Seguridad Vehicular**

660Á O cpglct "c "rc "F ghgpukxc"  
670Á Ekpwtqpgu'f g'Ugi wtkf cf "  
680Á Ecti ct "Eco kpgu"  
690Á O cpvgpk» kpvq "f g'Xgj "f wruqu"  
"

### **Tiempo**

6: 0Á Rtngxpe»p "f g'F c° qu'r qt "Ci wc"  
6; 0Á Vgo r q " " "Ngukppgu "Rgtuqpcrgu"  
"

### **Other**

720Á Kpxguwi cek»p "f g'Ceekf gpvgu"  
730Á E»o q "Gphgpcvt "wpc "Kpur geek»p "f g'QUI C"  
740Á Rtqvgeek»p "f gn'Radrleq "  
"





# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

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## Oqpwecti cu'

"

- ☞ Los montacargas por lo general son de la clase de viga telescópica y de la clase de carruaje arriba de la cabeza.

ÉÁ Guqu'ò qpwecti cu'ug'j cegp'r ctc'vgttgpqu'ceekf gpvcf qu'0

ÉÁ Uw'ecr cefk cf 'f g'rgxcpvct'qdlgxqu'ò w' 'cnuq'r wgf g'j cegt's wg'gn'gs wkr q'guv' 'kpguwxdr. "gur gekno gpvg'gp" vgttgpqu'ceekf gpvcf qu'0

ÉÁ Wpleco gpvg'hqu'vcdclcf qt gu'gptgpcf qu'x'cwqtk cf qu'r wgf gp'qr gtct'hqu'ò qpwecti cu'0

"

- ☞ Los contratistas de techos usan de forma regular los montacargas en el almacén y en el jardín.

ÉÁ Nqu'ò qf gnu'r ctc'vgttgpqu'ceekf gpvcf qu'vkgpg'ukngo cu'f g'uwr gpukp'f' 'ncpvcu'pgwo 'alecu."

j cek'pf qnu'vpc'qr ekp'gzegrpvg'r ctc'wuqu'c'nc'kpvg r gtlg'q'gp'vgttgpqu'ceekf gpvcf qu'0

ÉÁ Nqu'ò qf gnu'r ctc'cf gptq'f g'gf hlekqu'wucno gpvg'pq'vkgpg'vpc'uwr gpukp'f' 'vkgpf gp'c'vpgt'ncpvcu' f g'i qo c'u»rkf c'0Guqu'ò qf gnu'pq'f gdgp'wuctug'gp'vgttgpqu'ceekf gpvcf qu'r qts wg'ug'f gui cuvc'ò wej q'gn' gs wkr q'f' 'r wgf gp'xqrectug'h' ekno gpvg'0

"

- ☞ Todos los montacargas deben estar provistos de mecanismos de seguridad general, y hay además algunos simples procedimientos de operación que seguir

ÉÁ P wpec'cpf g'uqdtg. 'pk'r gto kc's wg'qtc'r gtuqpc'cpf g'uqdtg. 'ncu'j qts wku'pk'gp'pkpi Àp'qvtq'hw' ct'g'p'gn' o qpwecti cu'ò kpgvtcu's wg'guv' 'gp'ò qxlo kpgv'uk'pq'j' c'f' 'wp'cukgpvq'0

ÉÁ O cpv'pi cug'gpgtcf q'f g'g'wvwtcu'cpldc'f g'nc'ecdgl c'x'f'p'gcu'g'f'extlecu'0

ÉÁ Kpur geekppg'uwo qpwecti cu'f' 'cpvgu'f g'qr gtctm'cugi wtg's wg'hwpekppgp'ncu'ug'ò crgu'f g'ò ctej c'cvt' u."

ÉÁ P q'eqmgs wg'dtc' qu'pk'r ktpcu'gptg'gn'ò 'a ukn'f' 'gn'ò qpwecti cu'0

ÉÁ Vqf qu'hqu'qr gtcf qtgu'f gdgp'tgekdk'gptgpcu'kpgv'f' 'nc'cwqtk cekp'f' gdlf c'cpvgu'f g'qr gtct'wp' o qpwecti cu'0

ÉÁ Ewcpf q'gn'ò qpwecti cu'pq'guv' 'gp'qr gtcelp. 'ncu'j qts wku'f' gdgp'dclctug'r qt'eqo r ngvq'0

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③0 Á Nc'r tqvgeekp'eqpvtc'xqrectf wtcu'ug'j' c'f'kug'ò cf q'r ctc'r tqvgi gtrg'c'Wf. "gp'gxgpv'f' g'wpc'xqrectf wtc'" P q'dtlpi wg'f g'nc'ò 'a s wpc'uk'go r kgl c'c'xqrectug'0"

④0 Á Uk'gz kng. "gn'ekpwt»p'rg'r tggpft' a "nc'ec'f' c'f' gn'ò qpwecti cu'uk'ej qec'" eqpvtc'cni q'q'uk'ug'xwngc'0"

⑤0 Á Xklg'eqp'ecti c. 'cni'pk'gn'ò 'a u'dclq'r qukdrg'r qts wg'gptg'ò 'a u'cnc'guv' " nc'ecti c. 'ò c'f' qt'ugt' a "nc'vpgf gpek'f' gn'ò qpwecti cu'f' g'xqrectug'0" P wpec'f' glg'gn'ò qpwecti cu'uk'p'cvpgf gt'eqp'wpc'" ecti c'gp'r qulekp'grgxc'f' c'0"

⑥0 Á O cpglct'Àpleco gpvg'ecti cu'gucdngu'q'ncu'cttgi rcf cu' f'g'hqto c'ugi wtc'0

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# Pláticas de Herramientas

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## Ugi wt kf cf 'f g' Guecrgt cu'f g' O cpq''

☞ Antes de colocar una escalera de mano, inspecciónela para detectar defectos. "

É Cugi wt g's wg'gu'p'p'gp'rc'p' qulekp'eqttgevc'ngu'ugi wtqu'gp'rcu'guecrgt cu'f g'gz vepukp'cpvgu'f g'o qpvt0'  
 É P wpec'wug'wpc'guecrgt c'f g'o cpq'eqp'guecmppgu'j gpf kf qu'q's wg'hncp0'  
 É P wpec'wug'wpc'guecrgt c'f g'o cpq'eqp'i tcuc.'cegkg.'w'qvtc'uwncpekc't gudcmuc'gp'ngu'guecmppgu'q'tkgu0'  
 É Ncu'guecrgt cu'f g'o cpq'f ghgewqucu's wg'pq'r'wgf cp'tgr ctctug'gp'grihwi ct'o kuo q'f gdgp'ucectug'f g'  
 ugtxlekq'f'ug'f gdg'eqmectrgu'wpc'gks wgc0'  
 É Cugi wt g's wg'ngu'r'kgu'f g'rc'guecrgt c'f g'o cpq'r'wgf cp'  
 o qxgtug'hkdtgo gpvg'f' s wg'ugcp't gukwgpvgu'c't gudcrctug0'

☞ La escalera de mano debe, extenderse tres pies arriba de la parte superior de) edificio y debe asegurarse.

ÉÁ Uk'rc'guecrgt c'f g'o cpq'pq'gu'ng'uwhekgpvg'gpvg'cnuq'  
 ÉÁ r ctc'gz vepf gtug't gu'r'kgu'cttkdc'gpvqpegu'f gdg'co cttctug.'"  
 { 'f gdg'j cdgt'vp'tkgu'ugi wtq's wg'ukt xc'f g'culf gtq0'

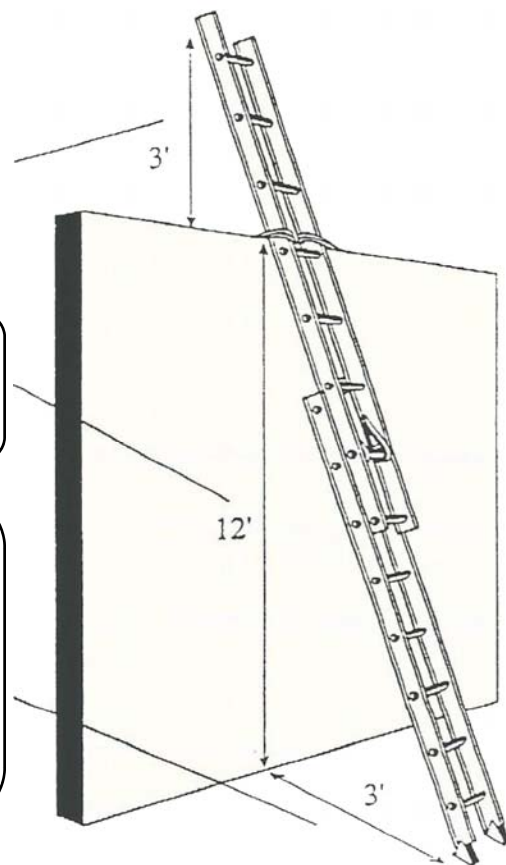
☞ Para cada cuatro pies de altura de edificio, la base de la escalera debe colocarse a un pie de distancia del edificio.

☞ Afije la escalera en tierra firme y asegure que esté bien asentada.

ÉÁ Ncu'uw'gthleku'kf gergu'uqp'gneqpetgvq'q'rc'vgttc'eqo r cev0'  
 ÉÁ Gxkg'tqecu'kgu'cdngu.'ctgpc'uwgnc.'ngf q.'f'j kng0'  
 ÉÁ Uk'rc'guecrgt c'pq'vkgp'g'r'kgu't gukwgpvgu'c't gudcrct.'ecxg'''  
 wpc'r'gs wg'o c'tlpej gtc'f'eqmgs wg'rc'dcug'f g'rc'guecrgt c'gp'''  
 rc'tlpej gtc'r ctc's wg'pq't gudcrf 0'

☞ Siga prácticas seguras de trabajo para subir y cargar las escaleras.

ÉÁ O cpvgpi c'crio gpqu'wpc'o cpq'gp'rc'guecrgt c'gp'vqf q'o qo gpvq'criuwdk't'q'dclct0'  
 ÉÁ O k'g'j cekc'rc'guecrgt c'criuwdk't'q'dclct0'  
 ÉÁ O cpvgpi c'rcu'guecrgt cu.'gur gekm gpvg'rcu'o gv'necu.'mkqu'f g'f'p'p'gcu'gri'ev'lecu'cttkdc'f g'rc'ecdgl c0'  
 ÉÁ Eqpuki c'cxwf c'crio qxgt'gue'rgtcu'r'gucf cu0'





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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

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## Gueqdcu'f g'O qvqt "

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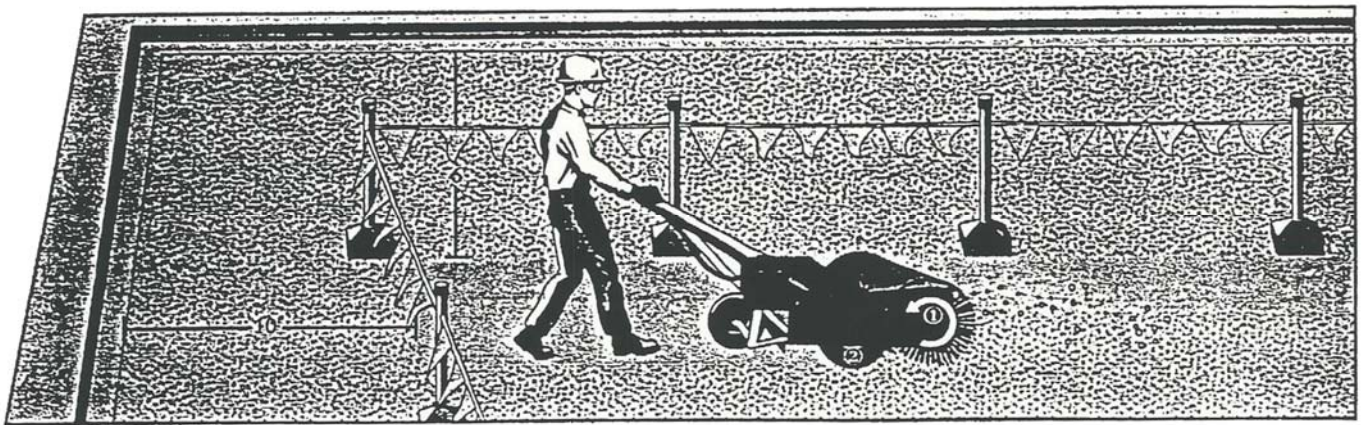
☞ Los operadores de escobas de motor necesitan recibir entrenamiento debido."

30) Á Gní'co dqt'f g'nc'gueqdc'ug'o wgxg'gp'ugp'kf q'eqp'vc'gní'gní'. 'cu'f's wg'cpv'gu'f g'ceek'qpct'nc'gueqdc' r tgr' t'gug'r ctc'gní'go r wlg'j cekl'c'v' u'f g'nc' dqt'f g'nc'gueqdc'0"

40) Á Ncu'gueqdcu'p'wxcu'wucp' t'wgf'cu'f g'r q'vpekl' r ctc'c' wí'ct'c' b' qxgt'nc'wpl'cf'j' cekl'cf' gnc'p'v' h'q'ewcn' c' wí'c'c'eqp'v'ctt'guct'gní' q'xko k'p'v'j' cekl'c'v' u'f g'nc' dqt'f g'nc'gueqdc'0 U'p'go d'cti'q'nc'wpl'cf' r wgf'g'ugt'02' o r wí'cf'c'j' cekl'c'v' u'uk'ncu' t'wgf'cu'p'q'gu' p'gp'eqp'v'cev'eqp'nc'v'gtt'c'0'

50) Á Vqf'cu'ncu'gueqdcu'f g'o qvqt'f g'dgp'v'p'gt'w'p' k'p'v'gtt'w'v'qt's wg'eqt'v'nc'eqtt'k'p'v'g'uk'gní'qr g'tcf'qt' u'w'gnc'ncu' o cpi'qu'0P w'pec'f'guc'v'k'g'g'ug'k'p'v'gtt'w'v'qt'0'

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☞ Obviamente, hay varios peligros asociados con esta máquina.

ÉÁ Gní'r g'nc' t'q'o c' q' t'gu'gní'dqt'f g'f' g'nc'v'gej' q'0Nc'r t'q'v'geek'p'eqp'vc'ec'f'cu'f g'dg'wuct'ug'ukgo r t'g'gní'qr g'tcf'qt' f'g'nc'gueqdc'f g'dg'v'p'gt'w'pc'dw'gpc'k'f'g'c'f'g'f'p'g'gu'p'gp't'g'nc'ek'p'eqp'gní'dqt'f g'0'

ÉÁ Ncu'gueqdcu'f g'o qvqt'ng'xcp'v'p'r l'gf'tcu'w'gncu'f'gueqo dt'qu.'cu'f's wg'gní'qr g'tcf'qt'f'v'qf'qu'ncu'f go' u'gp'gní' t'gc'f'g'dgp'ng'xct'cp'v'gql'qu'q'i'chcu'f'g'ugi'w'kf'cf'0'

ÉÁ Gní'qr g'tcf'qt'f'g'dg'v'p'gt'ew'kf'cf'q'f'g'p'q'f'k'k'k'nc'gueqdc'j' cekl'q'v'qu'v'cd'cl'cf'qt'gu'0'

ÉÁ Cr'ci'wg'ukgo r t'g'gní' b'qvqt'f'f'2'lgm'g'p'ht'k'ct'w'p'r'q'eq'cp'v'gu'f'g'ecti'ct'eqo dw'uk'dng'0'

ÉÁ Gz'k'v'g'nc'r'q'uk'd'k'k'f'cf'f'g'f'c'ct'gní'v'gej'q'o kuo'q.'gur'g'ek'm'gp'v'g'uk'gu'f'g'w'pc'u'q'nc'ecr'c'0'

"

Nqu'f'qu'r'g'nc' t'qu'o c' q' t'gu's wg't'gu'wnc'p'f'gní'w'ug'f'g'gueqdcu'f g'o qvqt'u'qp'ec'f'cu'f'ng'uk'q'p'gu'q'ew'w'ct'gu'0Gní'qr g'tcf'qt'f'g'nc'gueqdc'f g'o qvqt'f'g'dg'g'uct'g'p't'g'p'cf'q'c'h'q'p'f'q'r ctc'r t'gx'g'p'k'g'ux'qu'r'g'nc' t'qu'nc'eqo r t'g'p'f'gt'uw'qr g'tcekl'p'ugi'w'ct'0'

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# Pláticas de Herramientas

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## *Eqtvcfqtgu'fg'Vgej qu''*

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☞ **El equipo de protección personal es indispensable al operar un cortador de techos.** "

ÉÁ Nc'r tqvgeekp"qewrct"gp'hqto c'f g'i chcu"q"cpvqqlqu'f g'ugi wtkf cf "gxkcp's wg0mq'gueqo dtqu"xqmf qtgu" ng'r gi wgp"gp'hqu'qlqu."ugc's wg'Wf 0'gu'gn'qr gtcf qt"q'ugc's wg'vcdclc'egtec'f gn'eqtvcf qt'f g'vgej qu0'

ÉÁ Nqu'vcdclqu's wg'igxcpvgp'o wej q'r qnq'f'r wgf gp'tgs wgtk'f chcu'gp'hwi ct'f g'cpvqqlqu'f g'ugi wtkf cf 0'

ÉÁ Cf go <sup>a</sup> u."gu'r qukdrg's wg'ug'tgs wgtk'a "r tqvgeekp"cwf kxkc"x'tgur kcxqtkc0'

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☞ **Mangos acolchonados ayudarán a reducir la cantidad de vibración de la máquina.**

☞ **Los cortadores de techos representan un peligro también a los transeúntes y la propiedad cercana.**

ÉÁ F gdlf q"c's wg'mu'eqtvcf qtgu'f g'vgej qu'vkgpgp'rc'wpgf gpekc'f g'igxcpvct'i txcx'x'gueqo dtqu."uw" qr gtcekp'r wgf g'vpgt"wp'ko r cevq"gp'rcu'r gtuppu'f "hqu'qdlgvqu'o <sup>a</sup> u'cm'f gn'vgej q0'Vtcvg'f g"eqqtf kpct" rcu'qr gtcekpgu'eqp'hqu'f wg° qu'f gn'gf kkekq'r ctc'gxkct'f c° qu0'

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☞ **¡Cuidado al ajustar la hoja de cortar.**

ÉÁ Uk'rc'j qlc'gu' <sup>a</sup> "clwuxcf c'o wx'dclq."Wf 0'r qf t'p'eqtvcf'rc'dcug'o kuo c'f gn'vgej q0'

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☞ **Antes de cargar combustible, apague el motor y permita que se enfríe lo más posible. No fume al cargar combustible al cortador de techos, o a cualquier otro equipo de potencia a gasolina.**

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Nqu'eqtvcf qtgu'f g'vgej qu'uqp"gs wkr qu'gzegngpvu'r ctc'cj qttct'vgo r q'gp'hqu'vcdclqu'i tcpf gu0Ukp"go deti q."pq" ecki c'gp'rc'vto r c'f g'cr wtctug'vcpv's wg'eqo gvc'gttqtgu0Vqo g0Uwhekgpv'vgo r q'r ctc'vpgt'ewkf cf q0Rtqv'lcug" c'u'f'o kuo q'f "c'hqu'f go <sup>a</sup> u'f g'r kgf tcu'f "gueqo dtqu'igxcpvcf qu."f "f g'hqu'qvtqu'r grki tqu's wg'r wgf cp'r t gugpvctug'cn' wuct'eqtvcf qtgu'f g'vgej qu0'

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*Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Eqt w f qt gu'f g'Vgej qu'”*

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ÉÁ F go quwtct'rc"ecr cekf cf "f grl'eqtwf qt "f g'vgej qu'f g'rgxcpvct'r kcf tcu'r gs wg° cu'f "gueqo dtqu0'

ÉÁ Gpug° ct "c'hu'go r rncf qu"e»o q "dclct'rc"j qlc "f g'eqtwct. "f "e»o q "gxkct "dclctrc "f go cukcf q0'

ÉÁ J cegt'rcu'r tgi wpcu'uki wkpvgu<

ÉÁ äRqt's w² "gu'cp"lo r qtvpvg"rgxct'r tqvgeek»p"qewxtA"

ÉÁ äS w² "uwegf gtª "uk'rc"j qlc "ug"clwxc "f go cukcf q "dclqA"

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Vgo cu'Cf kkkpccgu"J cdcrcf qu< "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

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## Cpfco kqu"

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☞ **La firmeza de un andamio se limita por la firmeza de su base."**

É Nqu'cpf co kqu'f gdgp'gtki kug'gp'rc'vgttc'hkpg'f' u»rkf c.'eqo q'"

" uqp'gn'eqpetgvq'q'rc'vgttc'eqo r cevf c0'

É O cpv'pi cug'glqu'f g'ctgpc0'r kcf tcu'uwencu'f' 'qu'dqtf gu'f g'"

" gzeccxcekppgu0'"

30 Wug'ulgo r tg'i cvqu'f g'vgo km'r ctc'dcugu'r ctc'hcekkct'rc'pkxgrcek»p'f gn'ukugo c0'"

40 Wug'i wctf cdcttqu'gp'qu'vgttgpqu'ceekf gpvcf qu'q'gp'rc'vgttc'eqo r cevf c0'

ÉÁ Wpc'r gtupc'eqo r gvgpv'f gdg'f gekf k'ew' ngu'o 2 vqf qu'f g'r tqvgeek»p'eqpvc'ec'f cu'f gdgp'wuctug'cn'gtki k' q'f guo cpvgrct'qu'cpf co kqu0'

☞ **Ásegúrese de usar componentes de andamio de manera correcta al erigir el sistema.**

É Vqf qu'qu'eqo r qpgpv'f gdgp'ugt' hcdtkcf qu'r qt' gn'o kuo q' hcdtkcpvg.' c'pq'ugt's wg'rc'r gtupc'eqo r gvgpv'f gekf c's wg'pq'j c' r grki tq'gp'wuct'r kg' cu'f g'qvtqu'ukugo cu0'

É Cugi wtg's wg'vqf qu'qu'gzvtgo qu'f g'qu'o ctequ'ug'eqpgev'p'htgo gpvg'eqp'r wpvcngu'gp'etw'0'

É Wug'r gtpqu'f g'eqpgz»p'cn'cr kct'pkxgrgu'o Ankr ngu'f g'o ctequ'f g'vgo kpcek»p0'

É Uk'gzkug'rc'r qudkrkf cf'f g's wg'gn'xkpvq'glgt| c'wpc'hwt| c'j cek'cttkdc.'gpvqpegu'wug'r gtpqu'f g'ekgtt<sup>2</sup> q'< uw'gs wxcrpgvg0'

ÉÁ **Cuando la altura de un andamio sobrepase su anchura por un factor arriba de cuatro, debe fijarse al edificio al menos cada 30 pies en sentido horizontal. Las pantallas contra el viento pueden reque\_rir seguros adicionales.**

É Uk'gn'ukugo c'f g'cpf co kclg'vkgpg'vgtu'r kqu'f g'cpej q'q'o gpqu.'f gdg'hkctug'cn'o gpqu'ecf c'42'r kgu'gp'ugpvkf q'xgtvker0'

É Uk'vkgpg'o a u'f g'vgtu'r kqu'f g'cpej q.'f gdg'hkctug'cn'o gpqu'ecf c'48'r kgu'gp'ugpvkf q'xgtvker0'

ÉÁ **Use tablas en toda el área de trabajo, y use protección contra caídas**

É Ncu'vcdrcu'f gdgp'ugt'f g'o cf gtc'f g'ecvgi qt'c'cpf co kq'f'f gdgp'ugt'o ctecf cu'eqo q'vcr0'

É Ncu'vcdrcu'pq'r wgf gp'f guxkct'o a u'f g'3 l82'f g'rc'npki kwf'f gn'vtco q0'

É Nqu'r cuco cpqu'f gdgp'eqmectug.'f g'cewgtf q'c'rcu'gur gekhlec/'

" f qpgu'f g'QUJ C0'

ÉÁ **Los puntales en cruz no pueden usarse para tener acceso ni para bajar del sistema de andamiaje.**

É Wf 0'r wgf g'uwdk'r qt'qu'o ctequ'f g'vppkpcek»p'uk'qu'"

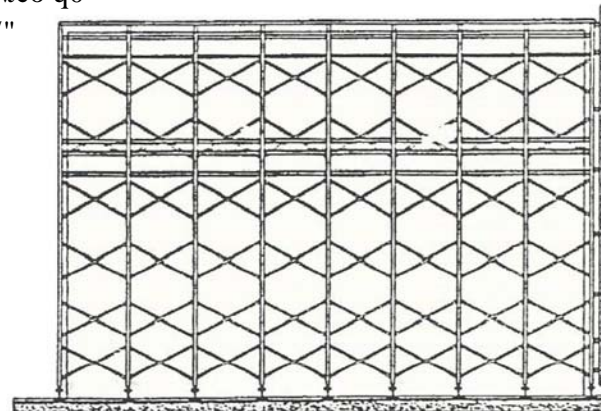
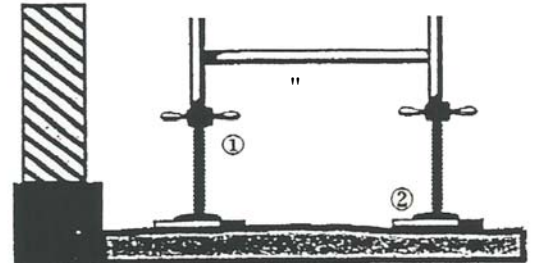
" guecmppgu'uqp'cn'o gpqu'f g': 'r wi cf cu'f g'npki kwf'f'eqp'"

" o gpqu'f g'38'5 l6'f g'wpc'r wi cf c'f g'gur cekq0'

ÉÁ Ncu'r rcvchto cu'f gdgp'guvct'f kur qpkdngu'cn'o gpqu'ecf c'57'r kgu0'

"

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***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Cpf co kqu''***

É Nrgxct'c"ecdq'nc'Rrf véc'f g'J gttco kgpvcu "cnlrf q'f g'wp'cpf co kq'gtki kf q'f "ug° crct'f »pf g'guv° 'Hkcf q'f " f »pf g'guv° p'rcu'xctkcu'r ct vgu'f grlukugo c'í wctf cdcttqu. 'i cvqu'f g'vqtpkmq. 'r wpvcrgu'f g'etw' +0'  
É Gpug° ct'c'hqu'go r rgef qu'e»o q'r wgf gp'f gvevct'uk'wpc'vcdm'gu'f g'o cf gtc'f g'ecvgi qt'c'cpf co kq0'  
É Gzr rlect'hq's wg'gu'K'hvgt| c'f grxlkpvq'r ctc'rgxcpvt0'  
É J cegt'rcu'r tgi wpvcu'uki wkpvcu'—  
É äUg'rg'r gto kg'uwdk'r qtrqu'r wpvcrgu'gp'etw' A'  
É äEw° n'gu'nc'o glqt'hqto c'f g'pkxgrct'wp'ukugo c'f g'cpf co kclgA'

P qvcu'

aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa " "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
" "Hgej c' " "Hko c'f gr's wg'Rt gupvc"

Vgo cu'Cf kclqpcrgu'J cdrf qu' "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

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*J gttco kgpvcu'Kō rwnucf cu'r qt 'O qvqt gu''  
fg'I cuqrlpc '{ 'Gr̃ ext lecu''*

☞ Hay cuatro clases-de herramientas a potencia."

É' C'i cuqrlpc"

É' Gr̃ ext lecu"

É' P gwo "a vlecu"

É' Ceekqpcf cu'r qt "R»kqtc"

"



☞ **Esta Plática de Herramientas hablará de herramientas a gasolina y eléctricas.**

☞ **Aunque cada herramienta a potencia tiene sus propios peligros únicos, hay reglas comunes para todas las herramientas.**

É' Ecf c'j gttco kgpvc'c'r qvgpek'f gdg'lpur geekqpcug'r ctc'f ggevc't'f ghgevqu'cpvqu'f g'wuctug0'

É' Ncu'j gttco kgpvcu'f ghgevqucu'f gdgp'o ctectug'eqp'gks wgv'f' "ucectug'f g'ugt xlekq0'

É' Ncu'j gttco kgpvcu's wg'eqtvgp."cuwkngr."vkwg'p'q"s wg'f kur ctgp'i tcr cu."f gdgp'wuctug'eqp'r tqvgeek»p" qewrt"cr tqdcf c'r qt "CP U0'

É' Rctc'ecf c'j gttco kgpvc'eqp'wp'guewf q."gn'guewf q'f gdg'guvct'r t gugpv'g'f'f gdg'hwpekqpct'dkqp0'

"

☞ **Herramientas a Potencia a Gasolina**

ÉÁ Cr ci wg'qu'o qvqtgu'f' r gto kc's wg'ug'gph'g'cpvqu'f g'ecti ct'eqo dwukdng0'

ÉÁ Nlo r kg'ewcns wkt'i cuqrlpc'f gttco cf c'f' "pwpec'r gto kc's wg'cni wkgp'hw g'gp'gn'a tgc'f g'ecti ct' eqo dwukdng0'

ÉÁ I wctf g'rc'i cuqrlpc'gp'rcvcu'f g'ugi wtkf cf "cr tqdcf cu'f' "eqp'rcu'gks wgvu'f gdkf cu0'

"

☞ **Herramientas Eléctricas**

ÉÁ Ecf c'j gttco kgpvc'f gdg'guvct'r tqxkvq'f g'wp'ecdng'lpvcvq'f' "f kur qukkxq'f g'crkxkq'f g'vgpuk»p0'

ÉÁ Cugi wtg'rc'r t gugpek'f g'mqu't gu'f kgpvcu0'Uk'hcnc'wpq."cxlug'c'uw'wv gt xkuqt'tctc's wg'r wgf c'eqmject'wpc" gks wgv'f' Ouuctug'f g'ugt xlekq0'Gn'vgt egt'f kgpvg'gu'gn'f g'vgttc'f' "ug'pgegukc'r ctc'c'f wf ct'c'gxj ct'ej qs wgu" gr̃ ext lequ0'

ÉÁ Ncu'j gttco kgpvcu'f g'ckurco kgpvc'f qdng'vpgf t'a p'cp'w»m'f qu'f kgpvcu'f' "rc'j gttco kgpvc'f gdg'guvct'o ctec/f c' erntco gpvg'eqo q'cni0'

ÉÁ Wug'wp'lpvgttwr vqt'f g'ektewkq'f g'hcnc'c'vgttc'»I HEK'r ctc'c'f wf ct'c'r tgxgpk'ej qs wgu'gr̃ ext lequ0'Uk'pq" j c'f' "I HEku."uw'eqo r c'o'f'f gdg'vpgt'wp'r tqi tco c'r ctc'c'cugi wtct'vgttc0'

ÉÁ Cugi wtg's wg'uwu'ecdng'u'f g'gz vgpuk»p'ugcp'f g'rc'ernug'eqttgew'f' "s wg'guv'p'gp'dwgp'guvct q'f g' hwpekqpc kgpvcu0'

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# Pláticas de Herramientas

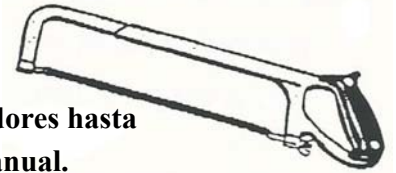
NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## J gttco kgpvcu'f g'O cpq''

"



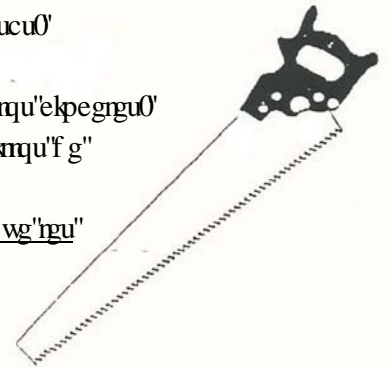
☞ Las herramientas de mano lo incluyen todo desde destornilladores hasta sierras de mano, y cualquier otra herramienta de potencia manual.



☞ Es esencial hacer el mantenimiento regular para mantener en buen estado de funcionamiento las herramientas de mano.



É' Tggo r nceg'o cpi qu'tqxqu'q'co gxcf qu."{ "qvtcu'r ct vgu'f ghgewqucu0'  
É' Chkg'j cej cu'x'ukgttcu0'  
É' Wug'wpc'o wgrc'r ctc'gxkct'ru'ecdgl cu'gp'hqto c'f g'j qpi q'gp'iqu'ekpegru0'  
É' Eqms wg'f g'hqto c'tgi wnt'j qlcu'f g'eqtvt'pwgxcu'gp'iqu'ewej kmqu'f g"  
" wkrkf cf 0'  
É' Vktg'c'rc'dcuwct'f 'tggo r nceg'ru'j gttco kgpvcu'f gui cuvcf cu'q's wg'ngu"  
" hcnep'r kgl cu0'



"

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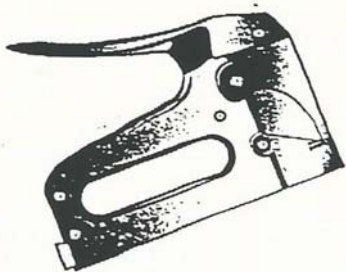
☞ Aunque no hay partes mecánicas, las herramientas manuales presentan peligros.

"



ÉÁ Nrgxg'ulgo r t g'gs wkr q'f g'r tqvgeek»p'r gtuqpcn'cr tqr kcf q'«RRG-0kpenwxgpf q'r tqvgeek»p"  
qewwt'CP UKcn'vtdclct'eqp'j gttco kgpvcu'eqp'dqtf gu'chkrf qu'q'eqp'iqu's wg'r wgf cp"  
i gpgtct'r ct vfwru'xqncf qtgu0'  
ÉÁ Ncu'j gttco kgpvcu'f g'o cpq's wg'ug'wugp'lpf gdlf co gpvg'r wgf gp'tguwnct'gp'eqtvcf cu"  
r wpl cpvgu'eqtvcf cu.'q'htcewtcu'f g'j wguqu0'  
ÉÁ Nqu'ewej kmqu'f g'wkrkf cf "{ "qvtcu'j gttco kgpvcu'chkrf cu'f gdgp'i wctf ctug'gp'wp'hw ct"  
ugi wtq'cn'pq"  
ÉÁ Vqf c'j gttco kgpvc'f gdg'wuctug'Àpleco gpvg'r ctc'gn'wuq'f kug° cf q0'

ÉÁ P q'wug'dettcu'f g'gzvgpuk»p'«Sej gcvgt'dctu»gp'ru'r crpecu'q'ru'mcxgu'r etc"  
cwo gpvct'rc'hwgt| c0Guq'r wgf g'f c° ct'q'f guvwt'rc'j gttco kgpvc.'{ 'r wgf g"  
eqpf vek'c'ngukppgu'r gtuqpcngu'co dk p0'



Gu'lo r qtvcpg'o cpvgpgt'ru'j gttco kgpvcu'f g'o cpq'"  
r qts wg'ug'f gui cuvcp'q'ug'f c° cp'eqp'hekrkf cf 0Nqu"  
f c° qu'c'rc'r tqr kgf cf 'q'ru'ngukppgu'r gtuqpcngu"  
r wgf gp'tguwnct'f gn'wuq'f g'j gttco kgpvcu'tqcu.'q"  
f g'wuctru'r ctc'wp'r tqr »uksq'pq'f kug° cf q0'

"











# Pláticas de Herramientas

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## J gttco kgpvcu'Pgwo "wecu'{'Ceekqpcfcu'r qt 'R»rxqtc'"

☞ **Á**dos clasificaciones generales de herramientas a potencia son las neumáticas y las accionadas por pólvora. Aunque cada herramienta a potencia presenta sus propios peligros únicos, hay algunas reglas comunes que seguir para todas las herramientas. "

É' Ecf c'j gttco kgpvc'f g'r qvgpek'f gdg'kpur geekqpctug'"  
 " r ctc'f gvgect'f ghgevqu'cpvqu'f g'uw'wuq0'  
 É' Ncu'j gttco kgpvcu'f ghgewqucu'f gdgp'gks wvgctug'"{"  
 " ucectug'f g'ugt xlekq0'  
 É' Nrgxg'r tqveekp'qewrt'cr tqdcf c'r qt 'CP UKcn'wuct'"  
 " j gttco kgpvcu's wg'eqt vgp.'cukngp.'tkwt gp.'q's wg'"  
 " f kur ctgp'i tcr cu'q'ercxqu0'  
 É' UK'wpc'j gttco kgpvc'kpg'wp'guewf q'f g'r tqveekp.'"  
 " xgtkks wg's wg'hwpkpg0'  
 "



### ☞ **Á**Herramientas Neumáticas

ÉÁ Cugi wtg's wg'qf c'eqpgzkp'f g'o cpi wgtc'guv? "cugi wtcf c'r ctc'gxkct'ugr ctcekp0'  
 ÉÁ P qvks wg'c'uw'wvr gt xluqt'uk'Wf 0pqv'o ci wgtcu'f gui cuvcf cu.'r ctc's wg'r wgf cp'gks wvgctug'"{" ucectug'  
 f g'ugt xlekq0'  
 ÉÁ Ncu'j gttco kgpvcu'pgwo "wecu' r wgf gp'i gpgtct'cnqu'pkxgru'f g'twkf q0Rt gi wpg'c'uw'wvr gt xluqt'uk'ug'  
 tgs wktg'r tqveekp'cwf kxco'  
 ÉÁ O cpvgpi c'rcu'r kxqruc'f g'ercxqu'"{" rcu'j gttco kgpvcu'ceekqpcfcu'r qt'r »rxqtc'r gtr gpf lewrt gu'c'rc"  
 ur gthekg0'

### ☞ **Á**Herramientas Accionadas por Pólvora

ÉÁ Ecf c'go r rgef q'f gdg'tgekdk'gn'gpv'gpcu kpvq'f gdlf q'cpvqu' cg'wuctrcu0'  
 ÉÁ Cn'wuct'guc'u'j gttco kgpvcu.'f gdg'wuctug'r tqveekp'qewrt.'hcekn'"{" cwf kxco'  
 ÉÁ UK'wpc'j gttco kgpvc'ceekqpcfcu'r qt'r »rxqtc'hmc="gur gtg'cnb gpqu'52'ugi wpf qu'cpvqu'f g'xqrgt'c'f kur ctct0'  
 ÉÁ P wpec'f kur ctg'uwlgv'f qt gu'c'o cf gtc'w'qt cu'wvr gthekgu'f g'dcl'f gpukf cf 0'  
 ÉÁ ¡Asegure que se sigan las recomendaciones del fabricante en todo momento!  
 "

Ncu'j gttco kgpvcu'pgwo "wecu'"{" rcu'ceekqpcfcu'r qt'r »rxqtc'r wgf gp'ugt'r gki tqcu'uk'pq'ug'wucp'f gdlf co gpvg0'  
 Cugi wtg's wg'eqpq' ec'dlqp'rc'qr gtcekp'f g'ecf c'j gttco kgpvc'cpvqu'f g'wuctrcu0'  
 "









# Pláticas de Herramientas

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## Ugi wtkcf'fg'I tÀc'O qpwf c'gp'Eco k»p''

"

Nc'b c{qt'r ctvg'f g'ewgukppgu'f g'ugi wtkcf'r ctc'i tÀcu'ug'cr nkecp'cnlqr gtcf qt=ukp"go dcti q."vqf qu'hqu'r tg/ugpvgu" gp"gnlukk'f g'tcdclq'f gdgp"guvct"gpvgctf qu'f g'rcu'tgi rcu'f g'ugi wtkcf'f g'i tÀcuOC wp'uk'Wf 0pq'gu'qr gt/cf qt."cnl' xgl 'cni Àp'f'p'ug'ig'r wgf g'r gf k'cr tgp'f gt'ug'o crgu'q'ugt'j qo dtg'f g'ug'o crgu.'q'ug'ig'r wgf g'r gf k'c{ wf ct'cnlqr gtcf qt" r ctc'i wkt'gnl'dtc| qOCn'o gpqu'Wf 0f gdg'f ctug'ewgpw'f g'm' s wg'gnl'qr gtcf qt'f g'i tÀc'f gdg'{"pq'f gdg'j' cegt'{"m' s wg'Wf 0'eqo q'b lgo dtq'f g'ewcf tknc.'f gdg'{"pq'f gdg'j' cegt'cn'guvct'egtec'f g'wpc'i tÀc'gp'qr gtcekp0'

"

- ☞ **Los operadores de grúas deben estar entrenados específicamente para cada grúa que operen.**
- ☞ **Los brazos de grúas deben estar siempre a por lo menos diez pies de cables eléctricos.**
- ☞ **Las cargas deben moverse siempre lejos de miembros de cuadrilla y del público.**
- ☞ **Los apoyos laterales deben usarse siempre al usar la grúa."**

ÉÁ Uk'qu'cr q{ qu'rcvgtcrgu'pq'r wgf gp'eqmectug'gp'vgttc'hko g0'gpvqpegu'f gdgp'wuctug'r wpcrgu'r ctc'etgct" wpc'uwv gthekg'hko g{"pkxgrcf q0'

"

- ☞ **El hombre de senales debe estar entrenado en todas las señales o debe llevar audífonos inalámbricos para que pueda comunicarse con el operador de la grúa.**

- ☞ **Una grúa nunca debe usarse fuera de los límites de su operación.**  
communicate with the crane operator.

- ☞ **Las actividades siguientes crean demasiada tensión en el brazo y los cables de la grúa: cargar repentinamente, columpiar las cargas demasiado rápido, o hacer botar la carga.**

- ☞ **Al levantar una carga, únicamente deben usarse las eslingas, sogas, y cadenas de categoría apropiada.**

ÉÁ Wpc'mpgc'f g'ecti c'pwpec'f gdg'wuctug'r ctc'r tgr ctct'wpc'ecti c0'

"

- ☞ **El aparejo de la carga y la estabilidad de la grúa pueden probarse levantando la carga de la tierra una cuantas pulgadas antes de comprometerse a levantar.**

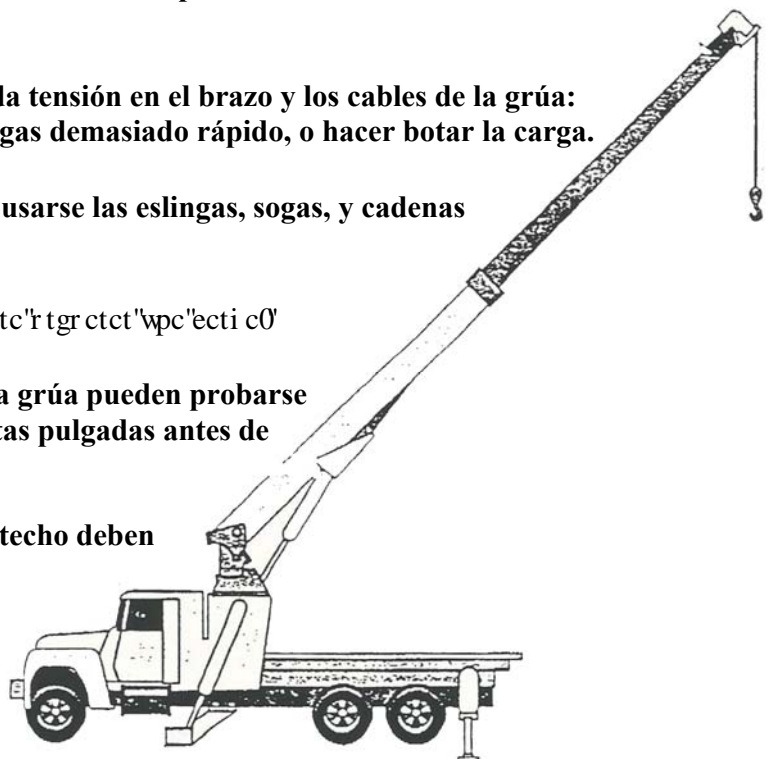
**Los empleados que reciban la carga en el techo deben usar protección cnvtra caídas.**

ÉÁ Ncu'mpgcu'f g'gvs wgvu'uqp"Àkrgu'r ctc'" eqptqirt'rcu'ecti cu.'gur gekno gpvg'gp'" mu'f'cu'f g'xkgpvq0'

"

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É' äUk'Wf 0r wgf g'gpug<sup>o</sup> ctug<sup>c</sup> u<sup>o</sup> kuo q'ir'qr gtcek<sup>p</sup> f'g'ir'í tÀc. "gu'r gto k<sup>k</sup>f q's wg'Wf 0'o wgx<sup>c</sup> pcf c'o <sup>a</sup> u"  
wpc<sup>c</sup> ecti c'r gs w<sup>o</sup> c'gp'wpc<sup>c</sup> go gti gpek<sup>c</sup> cw<sup>p</sup> uk'Wf 0pq<sup>j</sup> c'tgek<sup>k</sup> f'g'pvt gpc<sup>o</sup> k<sup>p</sup>wA'

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# Pláticas de Herramientas

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## Ukago c'Rgtuqpcnlf g'Cttguq'fg'Ec fcu''

☞ **Un sistema personal de arresto de caídas consiste en un andador corporal completo (las cinturas corporales no pueden usarse para arresto personal de caídas), un acoljador con ganchos de seguridad, una línea de seguridad, y un punto de anclaje.**

☞ **El diseño del sistema debe cumplir con ciertas especificaciones.**

30) Ncu'eqttgcu'f gdgp'ugt'f g'hdtcu'ukp' vlecu0'

40) Ug'tgs wktgp'i cpej qu'f g'ugi wtkf cf 'q'cplmqu'  
\$F\$. "{ f gdgp'hktug'cn'ewgtr q'gp'o gf kq'f g'"  
rc'gur crf c0'

50) Gri'cperlg'f gdg'ewo r rkt'eqp'ngu'tgs wkukqu'  
f gnhdtlecpvg0'Nqu'cperlgu'pq'r wgf gp'"  
eqpgevctug'c'r rrvchqto cu.'r cuco cpqu.'pk'"  
cr ctglqu0'

☞ **Los dispositivos de protección contra caídas deben inspeccionarse antes de cada uso.**

ÉÁ Dwus wg'f gui cuxg.'f c° qu.'q'f gvtlqtq0'

ÉÁ Kpur geekpg'r ctc'i cpej qu'q'cplmqu'\$F\$'tqxqu'q'f ghqto cf qu0'

ÉÁ Gri'gs wkr q'eqp'f ghgevqu'f gdg'tgo qxgtug'f 'gvs wvgctug'r ctc'tgr ctcekp.'q'vktctug0'

☞ **Asegure que el sistema se instale y se lleve correctamente.**

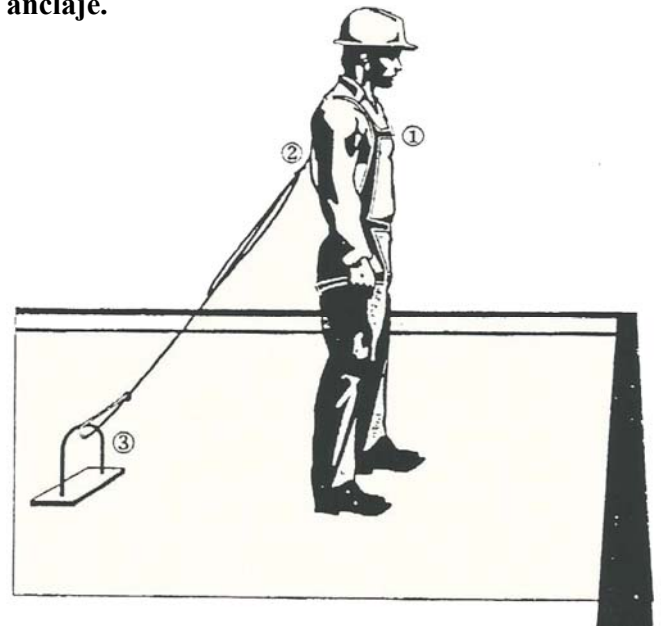
ÉÁ Gxkq'co cttct'gp'dqtf gu'vquequ'q'chkrf qu0'

ÉÁ Wpc'ec'f c'f gdg'rko kctug'c'ugku'r kgu'\*30 4; 'o gtqu+0'

☞ **Cuando un equipo se usa para arrestar una caída, debe removerse de servicio y una persona competente must inspect it to determine whether or not it is reusable.**

☞ **Nunca use un andador corporal para levantar materiales.**

☞ **El equipo de arresto de caídas no debe almacenarse donde se exponga a la luz solar o las temperaturas extremas.**





***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Ukugo cu'Rgtuqpcrgu'f g'Cttguw'f g'  
Ecffcu'''***

"

É Nrgxct'gn'cpf cf qt'eqtr qtcn'Wf 0o kuo q'q'r qpgtm'gp'cni wkgp'r ctc'f go quvtct'e»o q'ug'wuc0'

É Gzr nect'gn'ukugo c'f g'cttguw'f g'ecffcu'gzcevq's wg'uw'eao r c° c'wuc0'

É J cegt'ru'r tgi wpxcu'uki wkgp'gu<'

É äVkgpg'Wf 0wp'cpf cf qt'eqtr qtcn'q'r wgf g'Wf 0wuct'wp'ekpwt»p'eqtr qtcnA'

É äUg'r gto kg'eqpgevct'uw'ukugo c'r gtuqpcnlf g'cttguw'f g'ecffcu'c'wp'r cucu cpquA'

É Uk'gn'gf khek'kpgg'42'r kgu'f g'cnwtc. "äew pvc'f kucpekc'ug'r gppkkg's wg'Wf 0eck c'cpvgu'f g's wg'gn'  
ukugo c'r gtuqpcnleqptc'ecffa u'f gvgpi c'uw'ecffa cA'

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.....Hgej c'.....Hko c'f gnl's wg'Rt gupvc"

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Vgo cu'Cf kekqpcrgu'J cdrf qu<'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

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## Qreka'p'f'g'Rt qvgeek'p'f'g'Ec f'cu'Tgukf'gp'ek'ngu''

☞ **Los soportes anti-resbalar son soportes con tablas nominales de 2 x 6 pulgadas.**

☞ **Los proyectos que usen materiales de techos residenciales pueden usar soportes anti-resbalar como método de protección contra caídas, si se cumplen con las dos condiciones siguientes.**

ÉÁ Gn'crgtq'kphgtkqt'guv'c'47'r'kgu'q'o'gpqu'f'g'rc'v'kgttc0'f''

ÉÁ Nc'r'gp'f'kpv'g'gu'o'gpqu'f'g'0'q'ki'wcr'.'. "gp'340'

☞ **Para proyectos con un techo con una pendiente de menos de, o iguala, 6 en 12.**

ÉÁ Uqr'qt'v'gu'cp'vk'tgudcrt'r'etc'crgtqu'f'gdgp'kp'ucrtug'gp'''

Wp'a'pi'wq'f'g'; 2'i'tcf'qu'w'o'a'u'q'o'gpqu'32'i'tcf'qu'c'''

rc'uwr'gth'ek'g'f'gn'v'gej'q0'

ÉÁ Gug'uqr'qt'v'g'cp'vk'tgudcrt'f'gdg'kp'ucrtug'''

eqp'kpwco'gp'v'c'hq'rc'ti'q'f'gn'crgtq0'

ÉÁ P'q'ug'r'wgf'gp'kp'ucrt'o'a'u'f'g'v'gu'ewt'qu'f'g'o'cvgt'kn'f'g'v'gej'qu'cp'v'gu'f'g'kp'ucrt'gn'uqr'qt'v'g'  
cp'vk'tgudcrt0'

ÉÁ Wug'wp'uk'ngo'c'f'g'x'ki'kr'p'ek'f'g'ugi'w'kf'cf'r'etc'hqu'v'gu'r'tko'gt'qu'ewt'qu0'

☞ **Para proyectos con un techo mayor de 6 en 12, hasta e incluyendo 8 en 12 ....**

ÉÁ Nqu'uqr'qt'v'gu'cp'vk'tgudcrt'f'gdgp'kp'ucrtug'eqp'kpwco'gp'v'c'hq'rc'ti'q'f'gn'crgtq0'

ÉÁ F'gdgp'kp'ucrtug'uqr'qt'v'gu'cp'vk'tgudcrt'cf'lek'qpc'ngu'c'ue'gpf'k'gpf'q'gn'v'gej'q'c'kp'vgt'xcr'qu'pq'o'c'f'qt'gu'f'g'  
qej'q'r'kgu'0'Gu'qu'uqr'qt'v'gu'cp'vk'tgudcrt'ug't'gs'v'kgt'gp'À'pleco'gp'v'dclq'gn'a'tgc'f'g'v'tcdclq0'

ÉÁ U'k'ug'r't'gh'gt'g'rc'u'v'drc'u'f'g'hqu'uqr'qt'v'gu'cp'vk'tgudcrt'cf'lek'qpc'ngu'r'wgf'gp'eq'q'ectug'gp'wp'a'pi'wq'o'a'u'  
cr'tqr'kcf'q'r'etc'eco'k'pct0'

☞ **Por lo general, lo's materiales deben almacenarse a no menos de seis pies de los bordes de las inclinaciones.**

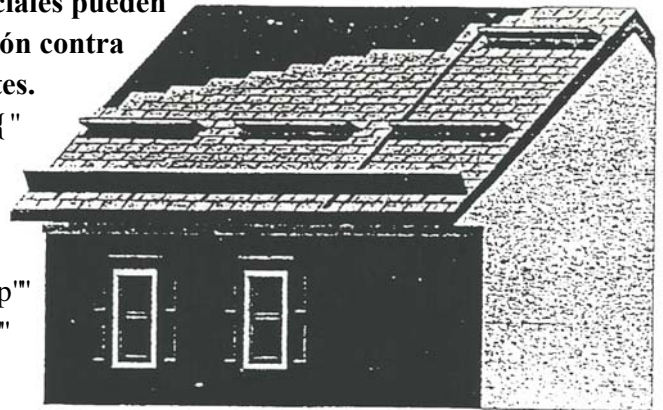
ÉÁ Nqu'o'cvgt'k'ngu'pq'r'wgf'gp'guvct'o'a'u'egtec'f'g'ug'ku'r'kgu'f'gn'dqtf'g'f'g'rc'k'p'ek'p'p'u'q'rkq'gp'hqu'  
v'tcdclq'f'g'v'gej'qu'f'g'v'lcu'q'f'g'o'gvn'gp'f'qpf'g'hqu'o'cvgt'k'ngu'r'wgf'gp'guvct'f'gp'v'q'f'g'v'gu'r'kg'f'gn'  
dqtf'g'f'g'k'p'ek'p'p0'

ÉÁ P'q'ug'r'gto'kg's'wg'hqu'v'tcdclcf'qt'gu'f'g'v'gej'qu'gu'v'p'o'a'u'egtec'f'g'ug'ku'r'kgu'cn'dqtf'g'f'g'k'p'ek'p'p'  
uc'rkq'r'etc'j'cegt'v'tcdclq0'

ÉÁ Gn'a'tgc'f'gdclq'f'gn'dqtf'g'f'g'k'p'ek'p'p'f'gdg'guvct'h'kdt'g'f'g'r'g'ki'tqu'f'g'go'r'c'rc'o'k'gp'v'q0'

☞ **Se le permite usar un sistema de Yigilancia de seguridad en los proyectos de tejas y de metal.**

ÉÁ Wp'x'ki'kr'p'v'g'f'g'ugi'w'kf'cf'f'gdg'ugt'w'pc'r'gtu'qpc'eqo'r'g'v'p'v'g's'wg'r'wgf'c'x'gt'f'cf'x'gt'v't'c'hqu'o'lgo'dt'qu'f'g'  
rc'ewcf'tk'm'uk'v'tcdclcp'f'g'hqto'c'r'g'ki'tqu'c'q'uk'gu'v'p'egtec'f'g'r'g'ki'tqu'f'g'ec'f'c0'Gn'x'ki'kr'p'v'g'f'g'ugi'w'kf'cf''  
r'wgf'g'v'p'gt'q'v'qu'f'gdgt'gu'eqp'v'cn'f'g's'wg'p'q'f'kuo'kp'w'cp'uw'j'cd'k'kf'cf'f'g'ugt'x'k't'eqo'q'x'ki'kr'p'v'g0'





É U'k'gu<sup>ə</sup> ɣp'w<sup>r</sup> t q { ɣe v q' t g u k' ɣ p e k n' f g o q u t c t' r c' k p u w c r e k p' e q t t g e v' f g' u q r q t ɣ u' c p w' t g u d c r c t 0'  
É J c e g t' r c' r' t g i w p c' u k i w ɣ p v g <  
É E w c p f q' w p' v g e j q' q' v ɣ p g' k p e n p c e k p' o c { q t' f g': "g p' 34' q' v ɣ p g' g n i c r t q' c' o<sup>a</sup> u' f g' 47' r' k u' f g' r' v e t t c' f g d g"  
w u c t u g' w p' u k u g o c' e q p x g p e k q p c n f' g' r' t q v g e e k p' e q p t c' e c' f c u 0 ä E w' n g u' u q p' c n i w p q u' g l g o r' n q u' f g' u k u g o c u'  
e q p x g p e k q p c r g u' f g' r' t q v g e e k p' e q p t c' e c' f c u A'  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ukago c'f'g'Xki kcpck'f'g'Ugi wtkf'cf''

☞ **Un Sistema de Vigilancia de Seguridad puede usarse como la única manera de protección contra caídas en techos de pendientes suaves (4 en 12 o menos) con menos de so-pies de anchura.**

☞ **Los Sistema de Vigilancia de Seguridad se permiten también en los techos más anchos de 50 pies, pero deben usarse en conjunto con otro sistema de protección contra caídas.**

ÉÁ Ncu'f'p'gcu'f'g'cf'xgt'vpek'uqp'gn'ukgo c'o' a'u'uko r'ng'f' o' a'u'r'qr'wrt'0'

ÉÁ Cwp'eqp'rcu'f'p'gcu'f'g'cf'xgt'vpek.'gn'Ukago c'f'g'Xki kcpck'f'g'Ugi wtkf'cf'f'gdg'wuctug'ukgo r'tg's'wg'hqu'go r'ngcf'qu'tcdclgp'hwgc'f'g'rcu'f'p'gcu'f'g'cf'xgt'vpek'0'

☞ **El Vigilante de Seguridad debe ser una persona competente**

ÉÁ Wpc'r'gtuqpc'eqo r'gwpvg'gu<

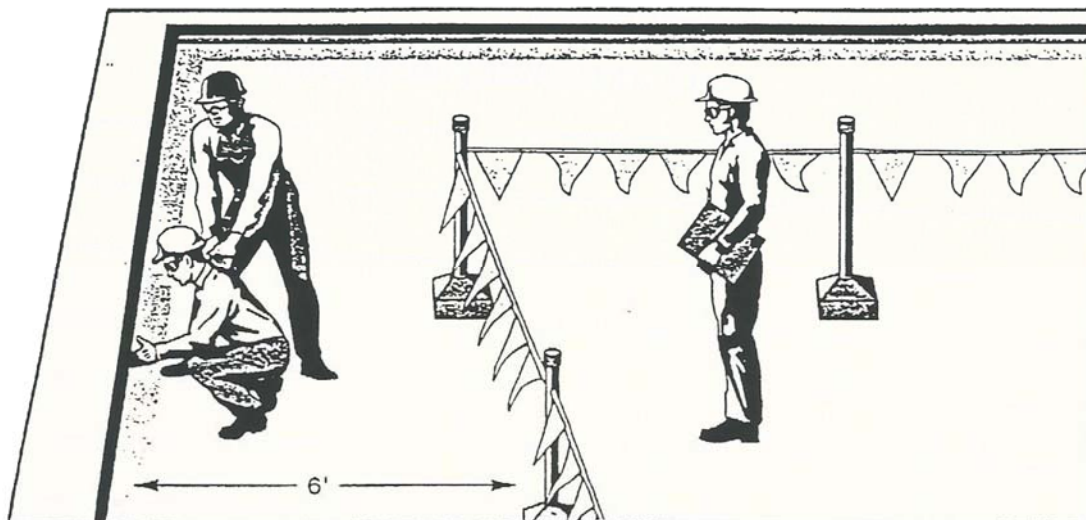
ÉÁ cri'wkp's'wg'j'c't'gckdk'q'gpv'gpc'kpvq'r'ctc'r'qf'gt't'geqpqegt'f'cpvckr'ct'r'gki'tqu'0'

ÉÁ { 's'wg'j'c't'gckdk'q'cwqtk'ckp'r'ctc'vqo'ct'ceekp'eqttgevkxc'l'po'gf'kw'0'

☞ **El Vigilante de Seguridad debe estar al mismo nivel de trabajo, debe poder ver a los empleados que debe vigilar, y debe tener la habilidad de comunicarse con ellos verbalmente.**

☞ **El Vigilante de Seguridad no puede tener otros deberes que pudieran interferir con su habilidad de llevar a cabo sus deberes como vigilante.**

ÉÁ Cni'wpqu'r'npgu'guvcngu.'eqo'q'hqu'f'g'Ecrlhgo'kc'f'Y'cu'j'kpi'vqp.'pq'r'gto'kcp's'wg'gn'Xki kcpvg'f'g'Ugi wtkf'cf'v'gpi'c'p'kpi'À'p'qtq'f'gdgt'cr'icewct'eqo'q'xki kcpvg'0'Gp'rc'o'c'f'qt'f'f'g'hqu'guvcf'qu.'cr'ixki kcpvg'f'g'ugi wtkf'cf'ug'hg'r'gto'kg'hgxct'c'ecdq'qtqu'f'gdgt'gu'0'











# Pláticas de Herramientas

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## Erctcdq{cu}'Cdgtwtcu'gp'Vgej qu'

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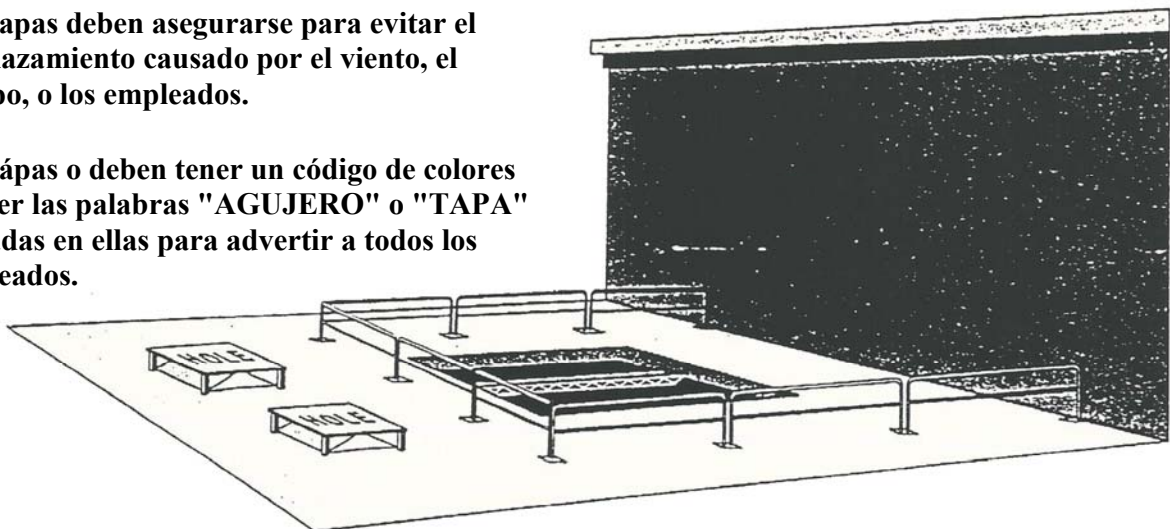
Nqu'go r rgcf qu'f gdgp'r tqvgi gtug'f g'ec'ff cu'gp'ru'cdgtwtcu'gp'gn'vgej q0Wpc'cdgtwtc'ug'f ghpg'eqo q" ewcrs wgt'cdgtwtc'gp'gn'vgej q'f g'4'r wi cf cu'q'o a u'f g'cpej wt0Wp'ceeguqlq'f g'ertcdq{ c'cn'xgl 'pq" ec'lect'a "eqo q'wpc'vcr c'f gdlf c'uk'pq'gu'hq'dcucpv'hwgtvg'eqo q'r ctc'tgukuk'gn'f qdng'f gn'r guq'f g'" go r rgcf qu'f "o cvgtkrgu0'

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☞ **La protección de caídas por medio de aberturas en el techo y claraboyas puede ser en forma de sistemas personales de arresto, tapas, o sistemas de pasamanos. "**

☞ **Las tapas deben asegurarse para evitar el desplazamiento causado por el viento, el equipo, o los empleados.**

☞ **Las tapas o deben tener un código de colores o tener las palabras "AGUJERO" o "TAPA" pintadas en ellas para advertir a todos los empleados.**



☞ **Si se usa una tapa, debe ser capaz de resistir al menos dos veces el peso de los trabajadores y materiales que probablemente se pararán o se colocarán en ella.**

☞ **Se pueden usar líneas de advertencia para separar áreas donde hay varias claraboyas.**

☞ **Si la tapa o el sistema de pasamanos debe quitarse para instalar bloques de madera o vierteaguas, los empleados deben usar sistemas personales de arresto de caídas.**

Ncu'ertcdq{cu}'{ "ru'cdgtwtcu'gp'gn'vgej q'tgr tgu'pvc'p'r grki tq'u'ugxgtqu'r ctc'Wf 0'ewcpf q'guv' "gp'gn'vgej q0Vcn' xgl "gp'guvg'o qo gpvq'ig'r ctgl ec'r qeq'r tqdcdng's wg'r wf kgtc'ecgt "ceekf gpvc'm gpvg'r qt "wpc'ertcdq{ c.'r gtq" o vej qu'go r rgcf qu'f g'vgej qu'ug'j cp'igukp'cf q'q'j cp'r gtf kf q'nc'xkf c'f gdlf q'c'wpc'ertcdq{ c'q'cdgtwtc'f g" vgej q's wg'pq'guvdc'f gdlf co gpvg'vcr cf c'q'dm's wgc'f c0'

"

"



É' Gpug° ct'wpc'vcr c'eqp'e»f ki q'c'eqmrtgu.'q's wg'vgpi c'\$CI WLGTQ.\$'q'\$VCRRC.\$'r kpxcf q'gp'gmr0'  
É' Gzr rlect'inqur'grki tquf'g'ecgt'gp'uw'r tq{ gevq'cewwcn'ukj} c{ 'emrtdq{ cu'q'cdgtwtcu'gp'gr'vgej q0'  
É' J cegt'rcu'r tgi wpcu'uki wlgpvgu<'<  
É' äRqt's w'pq'ug'r wgf g'wuct'wpc'ej cr c'f g'o cf gtc'ewcn wlgtc'eqo q'vcr cA'  
É' äRqt's w'j c{ 's wg'wuct'\$CI WLGTQ.\$'VCRRC.\$'q'e»f ki qu'f g'eqmrtA'

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Vgo cu'Cflekqpcgu"J cdirf qu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**"TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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☞ **Las líneas de advertencia se usan en techos:**

ÉÁ f g"ugku'r kgu"q"o<sup>a</sup> u'f g"cnwtc."

ÉÁ s w"vpi cp"r gpf kpgu" f g"ewxtq"r wi cf cu"gp" f qeg"q"o gpqu."

ÉÁ s w g' v p i c p' w p c' c p e j w t c' o c { q t' f g' e k p e w g p w c' r k g u. " { "

ÉÁ s w g " v p i c p " r c t c r g v q u " o g p q t g u " f g " 5 ; " r w i c f c u " f g " c n w t c 0 "

👉 **Las líneas se hacen de sogas, alambre, o cadenas, y hay una bandera al menos cada seis pies.**

ÉÁ Ncu'f'pgcu'f gdgp'vgpēt'wpc'tgukvpekc'ic'tceekp\*'t'gukvpekc'c's wgdctc+'f g'cn'o gpqu'722'ndtcu'o'

ÉÁ Fgdgp"cr q { ctug"gp"o qpvcpgu's wg'r wgf cp'tgukuk"cn'ò gpqu'38"kdteu'f g'hwt c'hvgtcn'ò

ÉÁ Nc'cnwtc'f'g'm'uwrgthelg'f'gn'vgei'q'j'cuv'm'f'pgc'f'g'cf'xgt'gpek'f'gdg'ugt'gpvt'g'56'f'5';'r'wri'cf'cu0'

👉 **Todo borde abierto cerca dd área de trabajo debe protegerse con líneas de advertencia.**

ÉÁ Ewcpf q"pq"i c{ "gs wr q"o ge<sup>a</sup> pleq"gp"wuq."rcu"lfp gcuf gdgp"eqmectug" c"ugku'r kgu" f g"vqf qu"qu"dqtf gu0'

ÉÁ Ewepf q'gn'gs wkr q'o ge<sup>a</sup>pleq'guv<sup>a</sup> 'gp'wuq.'ru'f'pgcu'f gdgp'guvct'cn'o gpqu'c'f kgl 'r'ku'f gn'dqtf g'gp'gn' ugpwf q'f g'o qxlo kcpw'f gn'qr gtfct q'f g'nc'o<sup>a</sup> s wkp.c.'f' 'uku'r'ku'gp'ngu'nf qu'o'

👉 **El equipo mecánico no puede usarse ni almacenarse fuera de las líneas de advertencia. Tampoco los materiales de techo pueden almacenarse en áreas fuera de las líneas de advertencia.**

☞ **Cualquier trabajador fuera de las líneas de advertencia debe protegerse con un sistema personal de arresto de caídas, pasamanos, o un sistema de vigilancia de seguridad.**



**Eqpuglqu'f g'Gpvt gpc o kgpv'f g'Ukugo cu'f g'Np gcu'f g'Cf xgtvpekc "**

É' O gf k'ugku'f'f kg' r'kgu'r ctc'f ct'c'iqu'vcdclcf qtgu'wpc'kf gc'f g'iqu'tgs wkukqu'f g'f kwcpekc'r ctc'f'p gcu'f g'cf xgtvpekc0'

É' Gpug' g m'guxcdk'cf'f g'wp'o qpvcpg'r ctc's wg'vgpi cp'wpc'kf gc'f g'iq'f k'ekn's wg'gu'wo dctm0'

É' J cegt'icu'r tgi wpcu'uki wgpvgu'<

É' Rtgi wpcvt'c'iqu'go r ngcf qu'r qt's w' 'etggp's wg'icu'f'p gcu'f g'cf xgtvpekc'f gdgp'hkctug'o a u'nglqu'f gri' dqtfg'cn'wuct'gn'gs wkr q'o ge<sup>a</sup> pleq0'

É' F »pf g'ug'r gto kg'wuct'f'cm cegpct'gs wkr q'o ge<sup>a</sup> pleqA"

P qvcu'<

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" "Hgej c' " "Hko c'f gri's wg'Rt gupvc"

Vgo cu'Cf lekqpcngu'J cdcrcf qu'<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ugi wtkf cf 'Gr̃extlec'''

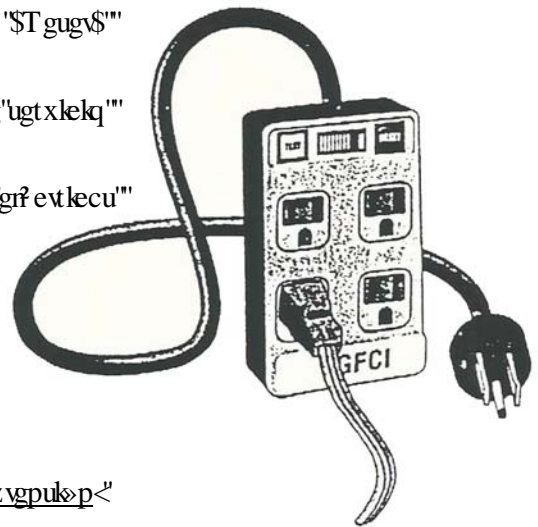
☞ **La seguridad eléctrica en el sitio de trabajo puede lograrse usando un interruptor de circuito de falla de tierra (GFCI) o un programa de tierra asegurada.**

☞ **Un interruptor de circuito de falla de tierra es un cortador de circuito sensible que pequeños cambios en amperaje y se acciona muy rápidamente.**

Tgxkug'gn'I HEK'tgi wtkto gpvg'eqp'iqu'dqvqpgu'Vgu\$'Rtqdc+'{ '\$Tgug\$'  
\*TgcLwuxct+0''

ÉÁ Uk'ug'f guewdt'g's wg'wp'I HEK'gu'f ghgetwquq.'f gdg'ucectug'f g'ugt'xlekq'''  
ulp'f go qtc'{'tgggo r'nc| ctug'0'

ÉÁ Wp'I HEK'f gdg'wuctug'r ctc'r tqvgi gt'vqf cu'ru'j gttco kpgvcu'gr̃extlec'''  
{ 'iqu'ecdngu'f g'gz'vgpuk'p0Rctc'iqi tct'guvq.'f gdg'eqmectug''  
gp'ic'hwpgvg'f g'ic'gr̃extlec'cf 0'



☞ **Un programa de tierra asegurada se diseña para asegurar que el equipo y los cables de extensión tengan el contacto correcto con la tierra.**

ÉÁ Nqu'uki wkpvg'up'f'gi wukqu'f g'ugi wtkf cf 'r ctc'ecd3gu'f g'gz'vgpuk'p<'

ÉÁ F gdgp'lpur geekqpctug'cpvgu'f gr̃r tko gt'wuq'0'

ÉÁ Nqu'ecdngu'f guj kcej cf qu.'eqtvcf qu'q'eqp'ckurco kpgvq'q'cnc' dt gu'gzzr wguvqu'f gdgp'ucectug'{' "  
g'ks wvgctug'0'

ÉÁ Wug'Àpleco gpvg'ecdngu'f g'gz'vgpuk'p'f g't gu'f kpgvqu'f 'f g'ckurco kpgvq'f qdng'0'

ÉÁ Xgtk'ks wg'ic'r t'gugpek'f 'eqpgzk'p'f gr̃f kpgvg'f g'vgttc'0'

ÉÁ P q'h'kg'iqu'ecdngu'f g'gz'vgpuk'p'c'ic'uw' gthlek'f gr̃f k'lekq'0'

☞ **He aquí los requisitos de seguridad para herramienta:**

ÉÁ Vqf cu'ru'j gttco kpgvcu'f g'r qvgpek'f gdgp'qrg'ug3'f g'ic'ckurco kpgvq'0'ercug'f g't'gu'f kpgvqu.'c'pq'ugt''  
s wg'ic'j gttco kpgvc'gu'2'o ctecf c'ertco gpvg'eqo q'wpc'f g'f qdng'ckurco kpgvq'0'

ÉÁ Ncu'j gttco kpgvcu'pq'f g'f qdng'ckurco kpgvq'f gdgp'lpewktug'gp'gr̃r tqi tco c'f g'vgttc'cugi wtkf c'0'

ÉÁ Xgtk'ks wg'ic'r t'gugpek'f gr̃f kpgvg'f g'vgttc'gp'c'vqf c'j gttco kpgvc'f g'r qvgpek'f g't'gu'f kpgvqu's wg'pq''  
ugc'f g'f qdng'ckurco kpgvq'0'Uk'gr̃f kpgvg'f g'vgttc'ic'nc.'lphqto g'c'uw'uw' gtxkuqt'0'

ÉÁ Ej gemicni'eqtf u0Vj g'vqni'o wu'dg'cngp'qw'qh'ugt'xleg'kh'j g'lpuwrcvqp'kuo 'cni'gzzr qugf 0'

ÉÁ Tgxkug'vqf qu'iqu'ecdngu'0'Nc'j gttco kpgvc'f gdg'u cectug'f g'ugt'xlekq'uk'gr̃ic'ckurco kpgvq'gu'2'gzzr wguvq'gp'iq''  
o 'a u'o 'pko q'0'



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·" F guetkdkl't'nc'r'twgd'c'f'g'gs wkr q'{'nc'o cpgtc'f'g'cr wpxct'grl'wuq'f'g'wp'gs wkr q'q'grl'wuq'f'g'e»f'ki qu'f'g'eqmqtO'  
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➡ **Hay cuatro clases de extintores contra incendios.**

ÉÁ Encug'D'gz kpwgtgu'ug'wucp'r ctc'nfs wf qu'kphco cdngu'{'i cugu0'

ÉÁ Encug'E"gz vpwqtgu'ug"wucp'r ctc"kegpfkqu'gr?evtkqu0'

ÉÁ Encug 'F' 'gz' xpvtgu'pgegukcp'wuctug'Àpleco gpvg'r ctc'kpepgf'ku'f'g'o gvcn'eqo dwukdrg0Nqu'o gvcrgu' eqo dwukdrgu'kpenw'gp'gn'o ci pguka.'gn'ua'f'kq'w'qtqu'o gvcrgu's wg'vppk'kpgp'eqp'ncu'ntcu'Swo \$'

➡ **Verifique el uso del extintor correcto.**

ÉÁ Wp"gz w pqt"ecuklecf q'r ctc"CDE"gu"gn'o glqt's wg"vpgt"c'o cpq'r qts wg"cr ci ct<sup>a</sup>"ecuk"qf c"emug"f g"  
kpepff ku"speqptcf qu"gp"gn'wej q0'

ÉÁ Xgtkhs wg's wg'mqu'gz wvqt gu'eqpvtc'hpēgpf kqu'ugcp'f g'rc'ērcug'cr tqr kcf c'r ctc'gn'ukq'f g'vcdclq0Rqt'm'  
i gpgtcn'w'p'gz wvqt'ecrkhecf q'cn'lo gpqu'4C'f gdg'r tqxggtug'r ctc'ecf c'5.222'r kgu'ewcf tcf qu'f gn'vgej q0

**➡ Sepa dónde están localizados los extintores en el sitio de trabajo.**

ÉÁ Wf 0pq'f gdg'vgtket's wg'xkclct'o<sup>a</sup> u'f g'322'r kgu'r ctc'ngi ct'c'wp'gz vkwgt0'

ÉÁ F qpf gs wgtc's wg'j c { c'o<sup>a</sup> u'f g'7'i cnpgu'f g'nf wf qu'kphco cdngu'q'eqo dwukdngu0q'o<sup>a</sup> u'f g'7'ndtcu'f g'  
i cu'kphco cdng. "gpvpegu'f gdg'j cdgt'cn'lo gpqu'wp'gz wpxt'f g'encug'32D'f gpvt'q'f g'72'r kgu'\*guw'pq"  
kpenw'f g'mu'nf wf qu'f gpvt'q'f g'mu'tw3s wgu'f g'i cu'knc'kpeqr qtcf qu'c'xgj 'ewwu0'

ÉÁ Cr'ò gpqu'f qu'gz wvqtgu'f gdgp'i wctf ctug'gp'gnluwgm"eqp'rc"ecrf etc."mlqu'f g'rc"ecrf gtc" | "gnr tqr cpq0'

👉 **Memorice el sistema "PASSH (las siglas en inglés) para sofocar un incendio.**

30. R"/"Lcmt"gn'r gtpq0"

(40)  $\text{C}''''\text{Cr wpxct}''\text{n}''\text{dqs wkm}''\text{j cek}''\text{n}''\text{dcug}''\text{f gnlpe gpf kq0}''$

(50) Á U/"Cr tgvct"gn'cukf gtq0"

(60) A U/"Dctt gt"f g"wp"nrf q"c"qvq"r ctc"ewdtk"vqf q"gn'kpegpf kq"

☞ **Los extintores deben inspeccionarse cada mes.**

ÉÁ Cugi wtg's wg'gnr go q'f g'ugi wtkf cf "guv<sup>2</sup> 'co ctctcf q'gp'uw'hwí ct'f 's wg'"  
pq"guv<sup>2</sup> 'f qdncf q0"

ÉÁ P qv's wg"rc"ci wlc"guv<sup>2</sup> "gp"rc"l qpc"f g'r t gulkp"eqttgevc0'

ÉÁ Dvus wg'ewcns wket "qz kf cek»p."cdqmcf wtcu."q'í tlgcu"gp"  
ewcns wket 'r ct w'f gn'ewetr q'f gn'gz wvqt0'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Nº wkf qu'hphco cdrgu'f 'Ego dwukdrgu'

☞ **En la industria de la construcción, OSHA define los líquidos inflamables como los que tienen puntos de inflamación por debajo de 140 grados Fahrenheit, y los líquidos combustibles como los que tienen puntos de inflamación entre 140 y 200 grados Fahrenheit.**

ÉÁ Gp'gr'vngt '\*f g'cewgtf q'c'ru'pqto cu'r ctc'lpf wutlc.'s wg'f kkgtp'f g'ru'pqto cu'r ctc'eqpustweekp+'ru'f  
nfs wkf qu'eqp'r wvqu'f g'kphco cekp'cttkdc'f g'322'i tcf qu'H'ug'eqpukf gtc'p'ego dwukdrgu'0

ÉÁ Wp'r wvqu'f g'kphco cekp'gu'rc'vgo r gtcwut'c'rc'ewcn'wp'f'wkf q'ug'r tgp'f g'hwgi q'uk'ug'gzi qpg'c'wpc''

ÉÁ mco c0'

ÉÁ Nc'i cuqkpc'vkgp'wp'r wvqu'f g'kphco cekp'f g'/67'i tcf qu'H'f'gr'f'ugri'vkgp'wp'r wvqu'f g'kphco cekp'f g'  
347'i tcf qu'H'Nqu'f qu'uqp'f'wkf qu'kphco cdrgu'gp'gr'ukq'f g'vcdclq.'r g0q'gr'f'ugri'ug'eqpukf gtc'wp'  
ego dwukdrg'gp'gr'vngt0'

☞ **Hay varias reglas respecto del almacenamiento de líquidos inflamables y combustibles.**

ÉÁ F gdg'j cdgt'dwpc'xgpk'vkek'p'gp'gr'g' tgc'f g'cm'cegpco kpvq'r ctc'r'g'xgpk'rc'cewo wkek'p'f g'xcr qtgu'0

ÉÁ Ncu'r wgtcu'f'c'cuknu'r ctc'kpegpf kqu'f gdgp'gu'ct'f gur glcf qu.'f'ru'f'wkf qu'pq'r wgf gp'cm'cegpctug'  
egtec'f g'guecrgtcu'q'ucrkf cu'0

ÉÁ O cpvpgt'ukgo r tg'guqu'f'wkf qu'rglqu'f g'ewcns wgt'hwpg'f g'ki plek'p.'ego q'uqp'gr'ecmgt.'ru'nco cu.'  
q'ru'o cvgtkrgu'f g'hwo ct0'

ÉÁ Nqu'f'wkf qu'f gdgp'cm'cegpctug'gp'rc'cu'f g'  
ugi vtcf cf'eqp'g'vks wgv.'eqp'co qt'ki wcf qtgu'f g'  
ej kur cu'x'cr cu'f g'cwq/ekttg'ucrkq'r ctc'f'w''  
f qu'gz'tgo cf co gpg'xkuequ'ego q'gr'cf j guk''  
xq'GRF O.'ru'ewcrgu'r wgf gp'cm'cegpctug'gp''  
uwu'gpxcugu'qt'ki kpcrgu'0

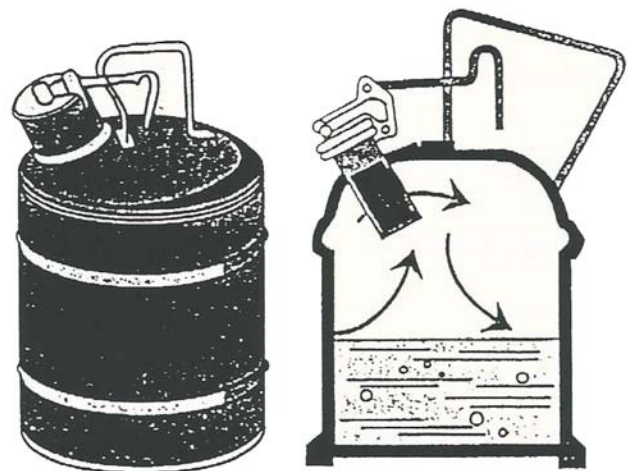
☞ **Para evitar incendios, hay algunos consejos de seguridad simples que hay que seguir.**

ÉÁ P q'hwo ct'egtec'f g'f'wkf qu'kphco cdrgu'q'  
ego dwukdrgu'0

ÉÁ Cn'ecti ct'ego dwukdrg'c'wp'gs wkr q.'cr ci ctng'f''  
f glctng'gph'kt.'uk'gu'r qukdrg0'

ÉÁ Wuct'guqu'hw'f qu'gp'g'gcu'dkcp'xgpk'vckf cu'r ctc'f'kuk'ct'ru'xcr qtgu'0

ÉÁ Vgpgt'c'rc'o cpq'ukgo r tg'wp'gz'vpxqt'/'q'f g'encug'D'q'f g'encug'CDE0'





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*Eqpuglqu'f g'Gp ut gpc o kgpw'f g'N\$ wlf qu'Kphco cdngu'f'*  
*Ego dwukdngu'*

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ÉÁ Gpug° ct'wpc'rc'f g'ugi wtkf cf "{ "gzr rlect'uwu'grgo gpvqu."eqo q"gn'co qpli wcf qt'f g'ej kur cu'f "rc'cr c'c"  
o gwng0Gzr rlect'rq'f wcf gtq's wg'gu'rc'rc'f g'ugi wtkf cf 0'

ÉÁ J cegt'rcu'r tgi wpcu'uki wkgpvgu'<

ÉÁ äRqt's w² "pgegukc"j cdgt'dwgpc'xgpcwcekp"gp" tgcuf qpf g'ug'cm cegpcp"iqu'f wlf quA"

ÉÁ äRqt's w² "ug'r tqj kdg'hwo ct'ulgo r tg'egtec'f g'iqu'o cvgtkrgu'f "f wlf qu'Kphco cdngu'f "eqo dwukdnguA"

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"\*\*\*\*\*"Hgej c "\*\*\*\*\*"Hko c'f gn's wg'Rt gupvc"

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Vgo cu'Cf lekqpcrgu"J cdrf qu<aaa"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ugi wt kf cf 'f g'Uqr ngv'Qz ki gp q/Cegvkgp q'''

- ☞ **Los sopletes Oxi-Acetileno se usan con frecuencia en los techos para cortar objetos metálicos pesados como son las tarimas metálicas."**

ÉÁ Grícegvkgp q'gu'wp'í cu'o wí kphco cdng'j gej q'f g'rc'cegvpqpc0Nc'cegvpq'gu'wp'íí wí q'o wí kphco cdng' s w'ug'gpewgptc'eqo wpo gpvg'gp'hqu'r tqf wevqu'eqo q'gníí wí q'r ctc's wíct'r kpwtc0'

ÉÁ Gríqz'í gpq'ug'o gí er'e'eqp'grícegvkgp q'r ctc's w'grícegvkgp q'ctf c'c'wpc'vgo r gtcwtc'o a u'cnc0Nc' vgo r gtcwtc'o a u'cnc'cwo gpvc'rc'tcr kf gí '{'rc'ghkecek'f gnr tqeguq'f g'eqtwt0'

- ☞ **La preparación del sistema oxi-acetileno es un paso crítico para la seguridad de todo el mundo.**

ÉÁ Nqu'cps wgu'f g'qz'í gpq'í 'cegvkgp q'f gdgp'eqmectug'gp'r qulek p'xgt vkecn'x'ugi wt c0'

ÉÁ F wtcpvg'grí'vcpur qtvg.'rcu'vcr cu'f gdgp'guvct'gp'uw'hwí ct'gp'ecf c'dqvgm'0'

ÉÁ âP q'xklg'eqp'hqu'o cp»o gvtqu'xlpewrf qu'c'rcu'dqvgm'cu#'

ÉÁ P q'hmo g'pk'vpi c'mco cu'cdktvcu'gp'gn' tgc'f g'hqu'tcdclqu'f g'qzk/cegvkgp q0'

ÉÁ P wpec'wug'cegkg'r ctc'rwtdlect'hqu'o cp»o gvtqu'q'hqu'o cpi qu.'{ 'o cpvgpi c'hqu'tcr qu'cegkgququ'hwgtc' f gn' tgc0Gríqz'í gpq'tgceekqpc'eqp'xkqngpek'eqp'grícekg'í '{ctf gt'a 0'

ÉÁ Kpur geekqpg'grí'gs wkr q'r ctc'cugi wtct's w'guv' gp'dwgp'cu'eqpf lekqpgu'í '{s w'rcu'o cpi wgtcu'pq'vpi cp0' ci wgtqu0'

ÉÁ P wpec'wug'wp'ej qttq'f g'qz'í gpq'r ctc's wíct'vgttc'f g'uw'tqr c'q'uw'ewgtr q0Nc'vgttc'r wgf g'r gpgvtct'uw' r kgrí gdlf q'c'rc'cnc'r t guk'p0'

- ☞ **Al usar un sistema oxi-acetileno, las válvulas en cada botella no deben girarse más de una vez y medio.**

ÉÁ Uk'ug'pgegukc'wpc'rcxg'gur gekcn'gp'rc'dqvgm'f g'cegvkgp q.'f² lgrq'gp'uw'hwí ct'gp'wdq'gp'ecuq'f g's w'g' j c{ c'wpc'go gti gpek'í '{'ug'pgegukg'cr ci ct'rc'dqvgm'0'

ÉÁ Cdtc'í '{'ekgttc'eqp'tcr kf gí 'ecf c'dqvgm' =Guq'ug'mco c'Setcentpi \$'í '{'rko r kc'rc'x'a rkwrc'f g'ewcrs wgt' dcuwtc0Cugi wtg's w'rcu'o cpi wgtcu'pq'guv'p'eqpgevcf cu'cní' cegt'guq0'

ÉÁ Wug'Àpleco gpvg'wp'í gpgtcf qt'f g'ej kur cu'r ctc'gpegpf gt'gríuqr ngv0'

ÉÁ Ugo r tg'gpekgpf c'r tlo gtq'grícegvkgp q.'\$'í '{'clwug'rc'mco c'eqp'gríqz'í gpq0'

ÉÁ Cn'vgo kpc't.'cr ci w'rcu'x'a rkwrcu'gp'rc'dqvgm'í '{'rko r kg'rcu'o cpi wgtcu'f g'í cugu0'

- ☞ **El equipo de protección personal (PPE) se requiere también al cortar con un soplete oxi-acetileno.**

ÉÁ Cugi wtg's w'wug'rc'r tqvgeek p'qewrt'eqttgevc'eqp'ngp'gu'quewtqu'eqttgevu0Rtgi wpg'c'uw'uw'gtxkuqt' uk'pq'guv' 'ugi wtq'f g'ew' ríeqnq'f g'ngpvg's w'wuct0'

ÉÁ Nrgxg'wpc'eco kuc'f g'o cpi c'rti c'í '{'í wcp'gu'f g'ewgtq0'"



***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Ugi wt kf cf 'eqp 'Uqr ngvgu'Qzk  
Cegwgpq''***

ÉÁ Gp'w'f' qukdng. 'vgpgt 'f kur qpkdng'wp'ukwgo c'qzk/cegwkpgp0'

ÉÁ F go quwtct'w'uki wkgpvg<'

Rtgr ctcek»p'''

Kpur geek»p'''

Gpegpf gt'{'clwuct'eqttgewco gpvg'w'mco c''

ÉÁ J cegt'w'u'r tgi wpu'uki wkgpvgu<'

ÉÁ äRqt's w' 'pq'ug'f gdg'wuct'gn'qz'f gpq'r ctc'wko r kct'uw'tqr c'q'r kgnA'

ÉÁ äS w' 'ug'f gdg'wuct'r ctc'gpegpf gt'gn'uqr ngvgA'

P qwu<'

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\*\*\*\*\*Hgej c'\*\*\*\*\*Hko c'f gn's wg'Rt gugpv<"

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Vgo cu'Cf lekqpcngu'J cdrf qu<'aa

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

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## Ugi wt kf cf 'Eqp 'Rt qr cpq''

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Gnr' tqr cpq. "q'i cu' hewcf q' f' g' r' gvt » ngq \*NRI + "gu' wp' i' cu' s' wg' ug' j' c' l' pht kcf q. "eqo r tko kf q. " { "cm cegpcf q' gp" gpxcugu' dclq' r' tgu' k' p0' Gu' g' r' tgegu' r' gto kg' s' wg' i' tcpf gu' ecpv' kf cf gu' f' g' eqo dwukdng' ug' cm cegpgp' gp' wp' gpxcug' r' gs wg' q. "r' gtq' 'co dk' p' etgc' r' grki tqu' uki p' hlec' vxqu0"

☞ **Los cilindros LPG vienen en varios tamaños, y es importante elegir el tamaño correcto.**

ÉÁ Nqu' 'co c° qu' o' a u' eqo wpgu' gp' r' c' l' pf wutk' f' g' v' ej qu' uqp' i' qu' ek' l' pf tqu' f' g' 42. "62. " { "322" h' d' t' cu0

ÉÁ UK' Wf 0' u' g' r' eek' q' pc' wp' ek' l' pf t' q' f' go' cu' k' f' q' r' gs' wg' o' q' r' c' t' c' u' w' t' c' d' clq. "gn' v' cps' wg' r' w' gf' g' h' q' to' c' t' "gu' e' t' e' j' c' " { " f' kuo' k' p' w' k' t' r' c' e' p' v' k' f' c' f' f' g' r' t' q' r' cpq' i' d' g' t' c' f' q0' Gu' q' gu' o' a u' r' t' q' d' c' d' r' g' f' w' t' c' p' v' g' r' cu' r' c' r' e' c' e' k' q' p' g' u' f' g' u' q' r' ng' v' g' gp' i' qu' e' n' ko' cu' o' a u' h' r' q' u0

ÉÁ UK' wp' v' cps' wg' h' q' to' c' "gu' e' t' e' j' c. "r' g' to' k' c' s' w' g' u' g' e' c' r' k' g' p' v' g' p' c' w' t' c' m' gp' v' g0' P' q' c' r' r' k' s' w' g' g' n' i' u' q' r' ng' v' g' c' n' i' e' k' l' p' f' t' q' r' c' t' c' s' w' k' c' t' r' c' "gu' e' t' e' j' c' r' q' t' s' w' g' gu' q' r' w' gf' g' f' g' d' k' k' c' t' g' n' i' e' c' u' e' q' f' g' n' i' g' p' x' c' u' g' " { "r' w' gf' g' r' t' q' x' q' e' c' t' "w' p' c' " g' z' r' n' u' k' o' p0

"

☞ **Asegure que todos los cilindros estén asegurados con cadena o que estén amarrados en posición vertical.**

ÉÁ P' q' r' g' to' k' c' s' w' g' i' qu' e' k' l' p' f' t' q' u' gu' v' p' gp' r' r' q' u' e' k' o' p' j' q' t' k' q' p' v' c' r0' G' n' i' f' s' w' k' f' q' r' w' gf' g' gp' v' t' c' t' c' r' c' o' c' p' i' w' g' t' c' " { " e' c' w' u' c' t' r' t' q' d' r' g' o' cu' gp' g' n' i' u' k' u' g' o' c' f' g' g' x' c' e' w' c' e' k' o' p' f' g' x' c' r' q' t' g' u0

ÉÁ Nqu' ek' l' p' f' t' q' u' f' g' i' cu' r' w' gf' gp' e' q' p' x' g' p' k' u' g' gp' o' k' u' k' u' g' r' g' r' k' i' t' q' u' q' u' u' k' u' g' t' q' o' r' g' g' n' i' u' g' m' q' gp' v' t' g' g' n' i' e' c' u' e' q' " { "r' c' " x' a' r' k' w' c' o'

"

☞ **Al encender un soplete, use un generador de chispas**

ÉÁ P' q' "w' u' g' e' g' t' k' m' u' q' " g' p' e' g' p' f' g' f' q' t' g' u' r' c' t' c' " g' p' e' g' p' f' g' t' "u' q' r' ng' v' g' u0

ÉÁ [ "p' w' p' e' c' h' w' o' g' gp' wp' a' t' g' c' f' q' p' f' g' j' c' { "i' cu' r' t' q' r' cpq0

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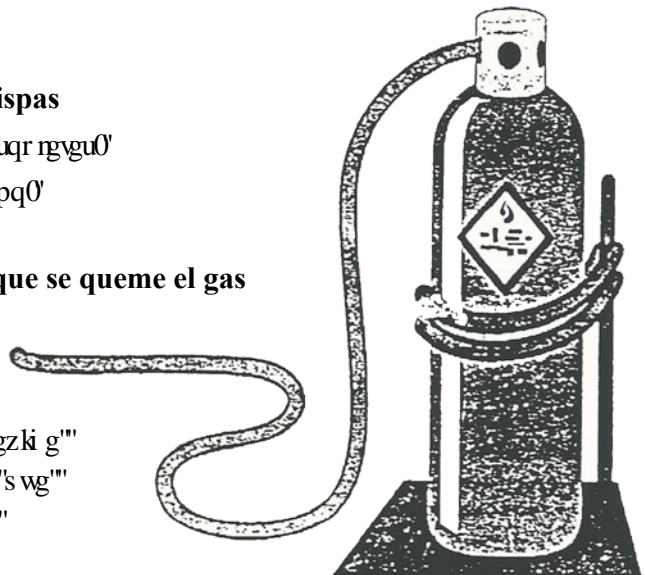
☞ **Al apagar el gas, cierre el regulador y permita que se quemé el gas que sobre en la manguera:**

Gnr' tqr cpq. "cu' eqo q' ewc' r' s' w' k' t' q' v' t' q' i' cu' eqo r tko kf q. "gzki g' " u' w' t' g' u' r' g' v' q0' G' n' i' w' u' q' l' p' f' g' d' k' f' q' f' g' wp' ek' l' p' f' t' q' q' g' n' i' r' g' p' p' k' k' s' w' g' " e' c' k' i' c' r' w' gf' gp' t' g' r' t' g' u' g' p' v' c' t' i' t' c' p' f' g' u' r' g' r' k' i' t' q' u' c' "Wf 0' { "u' w' u' " eqo r c° g' t' q' u' f' g' t' c' d' c' l' q0

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*Eqpuglqu'f g'Gpvt gpc o kgpw'f g'Ugi wt kf cf 'Eqp 'Rt qrcpq''*

”

É' F go quwtct'rc'hqto c'eqttgew'f g'eqmect.'cdtk.'{ 'egtct'wp'tgi wrcf qt0'

É' J cegt'rcu'r tgi wpcu'uki wkpvgu<'

" É""äRqt's w² 'ug'r tqj kdg'hwo ct'ewcpf q'guv³ 'gp'wuq'gnf cu'r tqr cpq.'uk'guv³ 'gp'wp'ekkpftqA'

" É""äRqt's w² 'pq'ug'r wgf g'wuct'wp'uqr ngv'r ctc'f gueppi grct'wp'ekkpftqA'

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## Ukxgo cu'Crñecf qu'Eqp 'Uqr ñvg''

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☞ **Átenga cuidado al encender un soplete, y al manejar un soplete encendido.**

ÉÁ Tgxlkg'vqf cu'ñcu'eqpgz kpgu'r ctc'f gvevct'ñwi cu'cpvgu'f g'go r gl ct'r ctc's wg'ññi cu'pq'ug'guecr g'f'etgg" wp'r grñi tq'ki pqtcf q'f g'kpegpf kq0'

ÉÁ Gpegpf c'gn'ñqr ñvg'eqp'ññi gpgtcf qt'f g'ej kur cu.'pq'eqp'wp'egt kmq'q'wp'gpegpf gf qt0'

ÉÁ Uk'gn'ñqr ñvg'guv' f'kug' cf q'r ctc'r gto kkt's wg'ug'eqrñs wg'gp'gn'r kuq'o kpgt cu's wg'guv' gpegpf kf q." cugi wt g's wg'ñc'ñwr gñhkg'gp'f qpf g'ñq'f glg'ugc'pq'kphñco cñrg0'

ÉÁ P wpec'f glg'ukp'cvpgf gt'wp'ñqr ñvg'gpegpf kf q0'

"

☞ **ÁNo aplique la llama del soplete directamente al substrato inflamable**

ÉÁ Uñhcegu'ñwej 'cu'r ñ y qqf 'qt'y qqf 'ñdgt'pggf 'q'dg'eqxgtgf 'y kj 'c'pqñ/hñco o cñrg'o cvgtkññwej 'cu'c" dcug'r ñ 'qh'cur j cñ'hñd'ghgtg'ñtej kpi 'y g'o qf kñgf 'dkwo gp'o go dtcpg0'

"

☞ **ÁWhen working on existing structures, especially those with wood decks, use extra caution at wall terminations and around projections.**

ÉÁ Ncu'ñwr gñhkgu'eqo q'ñ'o cf gtc'ñco kpcf c'q'ñ'hñdte'f g'o cf gtc'pgegukcp'ewdtktug'eqp'o cvgtkññpq" kphñco cñrg'eqo q'wpc'ecr c'dcug'f g'ectw'p'go dtgcf q'cpvgu'f g'cr ñect'gn'ñqr ñvg'c'ñ'o go dtcpc'f g" dgñp'o qf kñecf q0'

"

☞ **ÁAl trabajar en estructuras existentes, especialmente los que tienen tarimas de madera, use precaución adicional en las terminaciones de paredes y cerca de las proyecciones.**

ÉÁ Gn'r qñkq.'r gn'ñkñc.'cegkñg.'f' f' tñc'r wgf gp'cewo wñctug'gp'gñcu'a tñcu'f' r wgf gp'gpegpf gtug'ñf ekñ gpvg" eqp'gn'ñqr ñvg0'

ÉÁ P wpec'wug'gn'ñqr ñvg'gp'wp'a tgc's wg'pq'r wgf c'xgt'ernco gpvg0'

"

☞ **ÁLleve el PPE correcto al usar un soplete.**

ÉÁ I wcpvgu'f g'ewgtq'eqp'r tqveek»p'cf kñkpcñr ctc'ñcu'o w'gecu"

ÉÁ Wpc'eco kñc'f g'o cpi c'ñrti c"

ÉÁ Rtqveek»p'qewñc"

ÉÁ Dqñcu'f g'tcdclq'Hñgtñgu"

"

F guf g'gn'gpegpf kf q'f' 'o cpñlq'f gn'ñqr ñvg'j curc'ñc'eqñceek»p'f gn'ñkñgo c'f g'ecñhceek»p.'ñqu'ñkñgo cu'cr ñec/" f qu'eqp'ñqr ñvg'tgr tñgpcp'r grñi tq'ugtñkñu0'ñf0'f' 'vqf qu'ññu'eqo r c'º gtqu'f g'tcdclq'pgegukcp'vpgt'o wej q" ewkf cf q'r ctc's wg'pq'ug's wgo gp'pñk'ecwug'f c'º qu'ugtñkñu'c'ñc'r tqr kñf cf0'"









# Pláticas de Herramientas

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## Ego wplecekp'f g'Rgrli t qu''

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- ☞ **La norma de comunicación de peligros es una ley que**  
el empleado tiene el derecho de saber.

ÉÁ Wf 0pgeguke'ucdgt'ew' ngu'uwucpeku's w'p lecu'{'r tqf weu'  
f g'gej qu'tgr tguvp'wp'r grki tq'c'uw'ucmf. "{'ucdgt'rc"  
o cpgtc'f g'r tqvgi gtug'eqpvc'gmq0'

ÉÁ Uw'go r rgef qt'kpgg'wpc'r q'k'lec'x'r tqi tco c'r qt'guetkq'f g'rc"  
ego wplecekp'f g'r grki tqu's wg'kpenw' gp'ngu'r wpqu'uki wkpvgu<

ÉÁ Nkuc'f g'kpxgpvtkq'f g'Uwucpeku'S w'p lecu'Rtqf wevqu"

ÉÁ J qlc'f g'F cvqu'f g'Ugi wtkf cf'f g'O cvgtkrgu'\*O UF U+ "

ÉÁ kphqto cekp'f g'Gks wgvu"

ÉÁ Tgs wkukqu'f g'Gpvtgpco kpvq'{'Ctej kxqu"

ÉÁ Guq'f gdg'i wctf ctug'gp'uw'uklq'f g'tcdclq'r etc's wg'Wf 0'vgpi c"  
ceeguq'c'gmq'gp'vqf q'o qo gpvq0'

ÉÁ F k'q'cug'c'uw'uw'gtxluqt'q'o cxqtf qo q'uk'kpg'r tgi wpvcu'tgur gevq'f g'ngu'"  
o cv'tkrgu'r grki tququ="

"

- ☞ **Lista de Inventario de Sustancias Químicas/Productos**

ÉÁ Wpc'rkuc'f g'vqf cu'ru'uwucpeku's w'p lecu'r grki tqcu'f gdg'i wctf ctug'lwpvq'eqp'rc'r qJ k'ec'r qt'guetkq"  
{'rcu'j qlcu'O UF U0"

"

- ☞ **Hojas de Datos de Seguridad de Materiales (MSDS)**

ÉÁ Wpc'O UF U'f gdg'guvct'r tguvp'gr etc'ecf'c'uwucpeku's w'p lec'q'r tqf wevq'r grki tquq'gp'gn'uklq0'

ÉÁ Rctc'ru'o gl encu'rc'O UF U'kf gp'wlect'a "vqf cu'ru'uwucpeku's w'p lecu'gp'rc'o gl enc'rcu'ectcevgt'w'lecu"  
f g'rc'o gl enc.'"{'ewcns wkt'kphqto cekp'ko r qtcvpg'f g'r grki tqu0'

"

- ☞ **Información de Etiquetas**

ÉÁ Wpc'gks wgv'f gdg'k'ctug'gp'vqf q'gpxcug'f g'o cvgtkcn'r grki tquq.'kf gp'wlect'q'gn'pgo dtg'f gn'r tqf wevq."  
gn'pgo dtg'{'f k'geekp'f gn'hdtkcpvg.'g'kphqto cekp'f g'r grki tqu0'

ÉÁ kphqto g'c'uw'uw'gtxluqt'uk'rcnc'wpc'gks wgv'f g'gp'gpxcug.'q'pq'm'wug'j cuvc's wg'pq'ug'tggo r rneg'q'ug"  
xwgrkc'c'k'ct'wpc'gks wgv0'

"

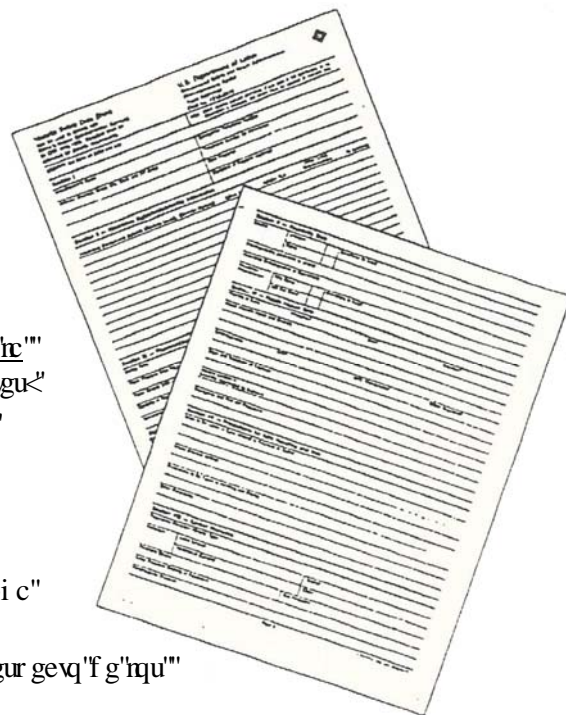
- ☞ **Requisitos de Entrenamiento**

ÉÁ Nc'pqto c'f g'QUI C'tgs wktg's wg'Wf 0'tgekdc'gpvtgpco kpvq'r etc's wg'vgpi c'eqpkeko kpvqu'eqo r rnvqu"  
f gn'r tqi tco c'guetkq'f g'uw'go r rgef qt'{'f g'vqf qu'ngu'o cvgtkrgu'r grki tququ'gp'uw'uklq'f g'tcdclq0'

ÉÁ Cugi wtg's wg'Wf 0'eqo r tgpfc'gn'gpvtgpco kpvq's wg'tgekdc.'cpf 's wg'ugr c'gpeqptct'rc'kphqto cekp'gp"  
rcu'O UF U0'

"

"











# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## J qlc 'f g'F c wqu'f g'Ugi wt kf cf 'f g'O c vgt k rgu'\*O UF U+'

"

☞ **Como parte de la Jey de derecho de los empleados de saber, su empleador está obligado a proveer MSDS para toda sustancia química usada en la compañía.**

ÉÁ Nc'O UF U'xctkct<sup>a</sup> 'f g'cewgtf q'cnhcdtkcpvg. 'r gtq'qf cu'vgpf t<sup>a</sup> p'cnlo gpqu'qej q'ugeekqpguO'

"

30Á Gnr tqf wevq'ug'kf gpvhlct<sup>a</sup> 'r qt'uw'pqo dtg'elgpvhlct'f' 'uw'pqo dtg'eqo Áp. 'uk'vkgpg'wpqO'

ÉÁ Cr cpegt<sup>a</sup> p'gp'guc'ugeekp'mqu'pAo gtqu'vgrh'plequ'f g'go gti gpek. 'lwpvq'eqp'gn'pqo dtg'f' 'r'f'k'geekp' f gnhcdtkcpvgO'

"

40Á Nqu'kpi tgf kpgvu'r gni tqqu'ug'kf gpvhlct<sup>a</sup> p. 'lwpvq'eqp'kphqtvpcekp'cegtect'f g'ew<sup>a</sup> pvq'vgo r q'wpc'r gtuqpc' r wgf g'guct'gzt wguv'c'gucqu'kpi tgf kpgvuO'

"

50Á Ug'r tguvpcp'gp'kuc'rcu'ectcevt'f'lecu'f gni'o cvgtkcnO'

ÉÁ Ncu'ectcevt'f'lecu's w'p'lecu'uqp'equcu'gnr wpvq'f g'gdwnlekp'f' 'gnr wpvq'f g'kphco cekpO'

ÉÁ Ncu'ectcevt'f'lecu'f'lecu'kpenw'f gp'rc'ctkpek. 'gn'eqmt'f' 'gn'qmtO'

"

60Á kphqto cekp'f g'f cvqu'f g'kpgpf kq'f' 'gzt rquk'p'ug'r tqxgg'cegtect'f g'ew<sup>a</sup> o q'vqhject'qu'kpgpf kqu'f' ecwucf qu'r qt'gn'o cvgtkcnO'

"

70Á Qvtc'ugeekp'dt'kpf c'kphqto cekp'kf gpvhlctcpf q'rcu'uwucpekcu's w'p'lecu's wg'ug'r wgf cp'wuct'f' 'cm cegpct' lwpvu. 'f' 'rcu'uwucpekcu's wg'f gdgp'ugr ctctugO'Guc'ugeekp'ug'mco c'\$f cvqu'f g'tgcevxxkf cf O\$"

"

80Á Nc'kphqto cekp'cegtect'f g'r gni tq'f g'ucnw'f'vkgpg'uw 'r tqr k'ugeekpO'

ÉÁ Guc'ugeekp'gzt rlect<sup>a</sup> 'qu'kpf lekqu'f' 'u'p'qo cu'f g'rc'uqdtggzt qulek'p'r ctc's wg'ugr c'kf gpvhlct'ew<sup>a</sup> pf q' vkgpg'f go cukcf q'f g'wpc'uwucpek'gp'uw'ukugo cO'

ÉÁ Ug'ig'f ct<sup>a</sup> 'vco dk'p'kphqto cekp'f g'r tko gtqu'cwz kquO'Ngc'guc'r ctg'ukgo r tg'cpvqu'f g'uii gtt' ewcns vkg't'encug'f g'r tko gtqu'cwz kqu. 'r qts wg'iq's wg'r wgf g'ugt'gn'o glqt'vtxco kpgv'r ctc'wpc'uwucpek' r wgf g'tguwuct'f c° kpg'r ctc'qtcO'

"

90Á Wpc'ugeekp'r tqxggt<sup>a</sup> 'r cuqu's wg'ugi wkt'gp'gn'gxgpvq'f g'wp'f gttco g'q'hw' c'g'kpenw'k<sup>a</sup> 'o cpgtcu'f g' cm cegpct'x'grko kpc't'o cvgtkrguO'

"

0Á Hkpcm gpvg'ug'f c'kphqto cekp'cegtect'f g'o 2 vqf qu'f g'eqpvtqn'eqo q'rcu'errugu'f g'gs wkr q'f g'r tqvgeekp' r gtuqpcniq'ukugo cu'f g'xgpvkrcekp's wg'ug'f gdgp'wuctO'

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*Cis wkt<sup>a</sup> p'fg'I wnc''*

☞ **Áquemaduras del asfalto caliente o el betún de alquitrán de hulla son dolorosas y muchas veces mutilan.**

ÉÁ Ncu'uwuncpeku'ecngpvgu'ug'r gi ct<sup>a</sup> p'c'ecuk'ewcns wket'uw<sup>r</sup> gthekg.  
kpenw<sup>r</sup> gpf q'ic'r kgn'

ÉÁ Uki wg's wgo cpf q'rc'ur gthlekgp'f qpf g'eck c'j cuvc's wg'pq'ug'j c { c'  
gphlcf q0'

ÉÁ Guvu's wgo cf wtu'uq'p'o w{ "f qmqtqucu"{ "uq'gz wgo cf co gpgv"  
f kfkpu'f g'ho r kct'

➡ **El uso del equipo de protección personal apropiado (PPE) ayudará a prevenir quemaduras.**

Ewcpfq"WF0tcdclc"eqp"equcu"ecnkpvgu"fgdg"mgxct<

ÉÁ Eco kcu'f g'o cpi c'ro c's w'ug'elgttgp'eqp'dqwpgu'gpelo c'f gnr w' »'f g'mu'i wcpvu=

ÉÁ Rcpvcnpgu"rti qu'ukp'xwnc"s wg"ewdtcp"r"r" ctvg"uwrgtkqt"f g"dqvu"f g"eqpurtweek»p"s wg"ewdtcp"hu"  
vdkmqu="

ÉÁ Ecuequ'f g'ugi wtkf cf 'x'guewf qu'hcekngu.r ctc'rcu'r gtuqpcu's wg'qr gtgp'rcu'ecrf gtcu'{"qu'\$mwi i gtu-\$"} "r qt'm'o gpqu'i chcu'r ctc'qu'vcr gcf qtgu()

**➡ Es importante comprender cómo responder a las quemaduras.**

ÉÁ Ewcpf q"m"ecnkpvg"guv<sup>a</sup> "gp"mto c"eqo r nvc o gpvg"m wf<sup>a</sup> . "m"tqr c"r wgf g"s wkctug"t<sup>a</sup> r kf co gpvg. "r gtq"  
wpc"xg" "s wg"go r keeg" c"gpv wtgegt"pq"tvcgf g"i wkct" gn'culcna p'k'n"tqr c"fg"p'kpi wpc"o cpqct0'

ÉÁ Gphl'g'gn<sup>a</sup> tgc'f'g'n's wgo cf wtc'eqp'ci wc'Àpleco gpvg'r etc'cr wtct'gn'gpf wt geko kgpvq'f'g'gn'ecrkpvg0'

ÉÁ P wpec"cr nk wg"wpí Áppvq0Nq"Àpèq"s wg"r cuct<sup>a</sup> "gu's wg"vopf<sup>a</sup> "s wg"s wktug"f qmtquco gpv"gp"gnj qur kcr0

ÉÁ Ncu's wgo cf wtcu'f'g'm'ecrkpvg'wuwcm gpvg'uqp'f'g'ugi wpf q'q'vtegt'i tcf q.'{'r wgf gp'tgr tguqpvct'wpc'  
co gpc| c'c'rc'xkf c0'

👉 **La seriedad de una quemadura es esencial para determinar el tratamiento apropiado.**

ЁА Wpc"s wgo cf wtc" f g'r tko g"i tcf q'r tqf weg'cp"u»nq'eqmrt'tqlq" g"j kej c| »p"/"eqo q'wpc"s wgo cf wtc"  
 f g'ucrn'

ÉÁ Wpc"s wgo cf wtc"í g"ugi wpf q"í tcf q"ug"kp f k ec"eqp"co r qm cuO'

ÉÁ Wpc's wgo cf wtc "f g" wtegt "i tcf q" ug" r t gupvct<sup>a</sup> "gp" mto c "f g" r ken' que wtc " { "ej co wuecf c0'

ÉÁ Nc'cvpekep'o 2 f lecl'f gdg'dwæctug'kpo gflkwo gpvg'r etc<q's wgo cf wtcu'f g'ugi wpf q'i tcf q's wg'ewdtcp" wpa tgc'i tcpf g'f gñewetr q'q'ewcns wgt' tgc'lpqxmwetcpf q'rc'edg| c. 'mqu'i gpkcrgu. "q'gz wgo kf cf gu: "q' ewcns wgt's wgo cf wtc'f g'wtegt'i tcf q0'

**➡ Así se ha llamado a la atención médica:**

ÉÁ O cpvpgt'c'ic'r'gtupc'm'o<sup>a</sup> u'e»o qf'q'r'gukdm'o lgpvtcu'ug'mco g'wpc'co dwrpekO'

ÉÁ Xk kɔ' r c t c ' k p f l e k q u ' f g ' e j q s w g ' / ' r w r k r u ' f k r v c f c u ' r k ɔ n ' a r k c ' / ' h ' ɕ = t g u r k k e k ɔ p ' r q e q ' r t q h w p f c ' g ' k t g i w r c t = { ' r w u u q ' t ' a r k f q ' q ' f ' 2 d k n ' / } ' g r e x g ' m u ' r k e u ' f g ' n ' r g t u q p c ' u k ' g u v ' p ' r t g u e p v u ' g u v u ' k p f l e k q u ' }





E' R t g i w p v c t ' u k ' c n i w k e t k ' u g ' j c ' s w g o c f q ' e q p ' i q ' e c n k e p v g . " q ' u k ' j c ' x k u v q ' c ' w p ' e q o r c ° g t q ' s w g o c f q 0 C p k o c t r u g u ' c " s w g ' j c d i n e p ' f g n l k e k f g p v g 0

E' J c e g t ' r c u ' r t g i w p v c u ' u k i w k g p v g u <

" E' "" ä R q t ' s w² ' g u ' k o r q t w p v g ' m g x c t ' r c p v c m p g u u k p ' x w g n c ' c n ' t c d c l c t ' e q p ' i q ' e c n k e p v g A'

" E' "" ä R q t ' s w² ' g u ' k o r q t w p v g ' m g x c t ' i w c p v g u ' c r t g v c f q u A'

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É Rgf kt's wg"qu'vcdclcf qtgu's wg'ug"j c{ cp's wgo cf q'gxcvpg'rc'o cpq0Rtgi wpxct'uk'qu'kpekf gpvqu'ug"  
j wldgtcp'r qf kf q'gxkct."{ 'uk'gu'cu'f'f g's w²'o cp²tc0'  
É Oªu'vctf g'gp'gnlf ¶.r tgi wpxct'c'wpg'f g'qu'vter gcf qtgu'f g'qu'ecndgpg's w²'j ct¶'uk'eni wkgp'ug't gudcmtc"gp"  
gn'cu'cnq'ecndgpg'f{ 'wxkgtc'o cvgtkn'ecndgpg'gp'vqf q'uw'dtc| q0'  
É Tgxkct'r tqegf ko kgpqu'o ²f lequ'f g"go gti gpek0'  
É Rgf kt'c'eni wkgp's wg'tgxkug'rc'rkuc'f g'RRG'eqtgtgewq"  
" É""J cegt'rc'r tgi wpxct'uki wkgpg<  
" É""äR»t's w²'gu'ko r qtcvpg's wg'pq"j c{ c'ci wc'pkj kgn'gp'rcu'ecnf gtcu."qu'\$ni i gtu.\$'pk'rcu'ewdgxcu'A"  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ugi wt kf cf 'f g' Cuhcnq' Ecnkpgv''

☞ **La primera línea de defensa contra el asfalto caliente es el equipo de protección personal (PPE).**



**La protección ocular es crítica.**

ÉÁ Cugi o g's wg'mqu'cpvqqlqu'q'i chcu'vgpi cp'rc'ecrñeekp' f g'CP UK' 's wg'guv'p'iko r kqu0'

ÉÁ UK'Wf O'gu'wp'gpecti cf q'f g'ecrf gtc. 'gpvqpegu'ngxg'wp' guewf q'hcekñeqpgewcf q'c'wp'ecueq'f g'ugi wt kf cf 'cttkdc' f g'mqu'cpvqqlqu0'

**Su camisa debe tener mangas largas que cubran los puños de sus guantes.**

ÉÁ Cdqvqpg'm'cnq'f g'uw'eco kuc'j curc'wp'dqv»p'f g' f kucpekc'f grñewgm0'

**Una de las partes claves de su PPE es sus guantes.**

ÉÁ Nqu'i wcpvqu'f g'cni qf »p'r wgf gp'dtkpf ct'r tqvgeek»p' o 'pko c'r gt q'mqu'i wcpvqu'f g'ewgtq'dtkpf cp'r tqvgeek»p' uwr gkqt0P wpec'ngxg'i wcpvqu'f g'j wg'cni0 cpglct'm' ecnkpgv0'

ÉÁ Cugi wt g's wg'pq'j c' c'r w' qu'gz wgf kf qu'gp'uwu'i wcpvqu0'

ÉÁ O gvc'mqu'r w' qu'f g'mqu'i wcpvqu'dclq'mqu'r w' qu' cdqvqpcf qu'f g'uw'eco kuc0'

**Las piernas de sus pantalones deben cubrir la parte superior de sus botas de trabajo, y no deben tener vuelta.**

**Sus botas de trabajo deben tener partes superiores al tobillo de cuero y suelas pesadas.**

☞ **El uso de buenas prácticas de trabajo evitará cualquier derrame y salpiqueo evitables del asfalto caliente.**

ÉÁ O cpvgpi c'mqu'Smwi i gtu\$' 'rcu'ecrf gtcu'ikdtgu'f g'j wo gf cf 'r etc's wg'gn'cuhcnq'pq'ucrr ks wg0'

ÉÁ P q'tevg'f g's wkct'ewdgxcu'f g'cuhcnq's wg'guv'p'r gi cf cu'cni'gej q'r qt'o gf kq'f g'lcrtreui 'f g'gru'r etc' rldtctreui'r etc'pq'ucrr lect'm'ecrkpgv0'

☞ **El mantener el asfalto en su temperatura óptima, y el pararse viento arriba de la caldera, "lugger," o cubeta reducirá al mínimo su exposición a los vapores de asfalto. Aunque no son peligrosos, los apores de asfalto pueden irritar.**

I tcp'r ctvg'f grñr grñi tq'cuqekcf q'eqp'gn'cuhcnq'ecrkpgv'r wgf g'gxkctug'eqp'r t'a evkecu'f g'tcdclq'ugi wt cu0Gñ'wuq' f grñRRG'cr tqr kcf q'tgf wek'a 'cni0 'pko q'rc'r qukdñkf cf 'f g'rgukppgu'f g'ucrr kecf wt cu'f g'm'ecrkpgv's wg'qeewt cp' f g'xgl 'gp'ewcpf q0'



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É Gpu<sup>o</sup> ct'c'ngu'go r ngcf qu'f » pf g"gpqpvct'ic'vgo r gtcwtc"»r vko c'"GXV+"gp'ic'gvs wgc'f grltgkrlgpg'f g"  
cuhng0'

É' J cegt'ncu'r tgi wpcu'uki wkpvcu<

É äS w² "kr q "fg"rt¹ ewe cu"fg"tcdclq "gxkct¹ p "f gttco gu" { "ucn kecf wt cu"fg"cu hcnq "ecnkpgA"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Qr gt cekp gu'f g'Ecif gtc'/'Rt gr ct cekp'g'Kp lekq''

☞ **Colocar la caldera con cuidado en relación con el edificio y los peatones.**

ÉÁ Vtcvg'f g'o cpvgpgt'rc'ecrf gtc'nglqu'f g'xgpcpcu.'vqo cu'f g'ckt g.'x'r wgtvcu'f g'ucrf c0'

ÉÁ Gp'gn'a tgc'f g'wp'vqo c'f g'ckt g.'eqpukf gtg'ewdtkt'rc'vqo c'eqp'r r'f vkeq0P q'qmkf g'f g'kphqto ct'cn' f gr ctw/o gpvq'f g'o cpvgpko kpvq'f gn'gf khekq'cpvgu'f g'j cegt'guvq0'

ÉÁ Nc'vr c'f g'rc'ecrf gtc'f gdg'cdtkug'j cekc'hwgtc'f gn'gf khekq0'

ÉÁ O cpvgpi c'rc'vr c'f g'rc'ecrf gtc'egtctf c'ukgo r tg's wg'pq'guv'ecti cpf q'gn'cu'cnq.'r ctc'cu'kldgtct'o gpqu' xcr qtgu0'

ÉÁ Elgttg'eqp'dcttlecf cu'gn'a tgc'f g'rc'ecrf gtc'uk'iqu'r gcvgpgu'kpggp'ceeguq'cn'a tgc0'

☞ **Coloque la caldera en el lugar más estable.**

ÉÁ Nqecneg'wp'a tgc'f qpf g'rc'vgttc'guv'p'kxgncf c'x'hkpgg0'

ÉÁ Nc'ctgpc.'rc'vgttc'wngnc.'q'j cuvc'rc'vgttc'ceekf gpvcf c'r wgf gp'r gto kkt's wg'rc'ecrf gtc'ug'o wxc'f' r qukdngo gpvg'ug'xwgs wg'q'ug'f gttco g0'

ÉÁ Eqms wg'dms wgu'gp'rcu'twgf cu'f g'rc'ecrf gtc'r ctc'gxkct'o qxko kpvq0'

☞ **Áleve siempre el equipo de protección personal correcto (PPE).**

ÉÁ Nqu'r cpvmpgu'rti qu'ukp'xwngcu'f gdgp'ngi ct'j cuvc'cttkdc'f g'ng'cnq'f g'dqvcu'f g'vcdclq'hwgtvgu0'

ÉÁ Nqu'r w' qu'f g'eco kcu'f g'o cpi c'rti c'f gdgp'cdqvpctug'cttkdc'f gn'r w' q'f g'ngu'i wcpvgu'cr tqr kcf qu0'

ÉÁ Nc'r tqvgeekp'qewrt'f' hcekn'f gdgp'dtkpf ctug'r qt'o gf kq'f g'wp'guewf q'hcekn'eqpgvcf q'c'wp'ecueq'f g' ugi wtkf cf 0Nqu'cpvgqlqu'f g'ugi wtkf cf 'q'rcu'i chcu'f gdclq'f gn'guewf q'hcekn'dtkpf ct'a p'r tqvgeekp'cf lekqpcr0'

☞ **Áuse precaución y precisión al encender los quemadores.**

ÉÁ Ngc'f' 'uki c'ukgo r tg'rcu'tgego gpf cekp gu'f gn'hdtkcpvg0'

ÉÁ P q'wug'egtkmqu'pk'gpegpf gf qtgu'/'uk'rc'ecrf gtc'pq'vkgp'wp'f kur qukskq'f g'gpegpf kf q'cwqo 'a'vleq.' gpvqpegu'wug'wp'i gpgtcf qt'f g'ej kur cu0'

ÉÁ Go r kgeg'gpcxo gpvg'ngu'i wgo cf qtgu'f' 'cwo gpvg'i tcf wcm gpvg'rc'vgo r gtcwte' j cuvc's wg'gn'cu'cnq'hw' c'rkdtgo gpvg'ctg gf qt'f g'ngu'wdqu0'

ÉÁ Cugi w'g's wg'ngu'i wgo cf qtgu's wg'ug'ucecp'\*\$r wni'qws'ug' cr wpvgp'f k'gewco gpvg'c'ng'rti q'f g'ngu'wdqu'r ctc's wg'ngu' wdqu'pq'ug'f ghqto gp'pk'ug'ci tlgvgp0'

ÉÁ Kpur geekpg'rcu'eqpgz kpgu'gp'ngu'vcp'wgu'f g'r tqr cpq'f' 'rcu' ecnf gtcu0'

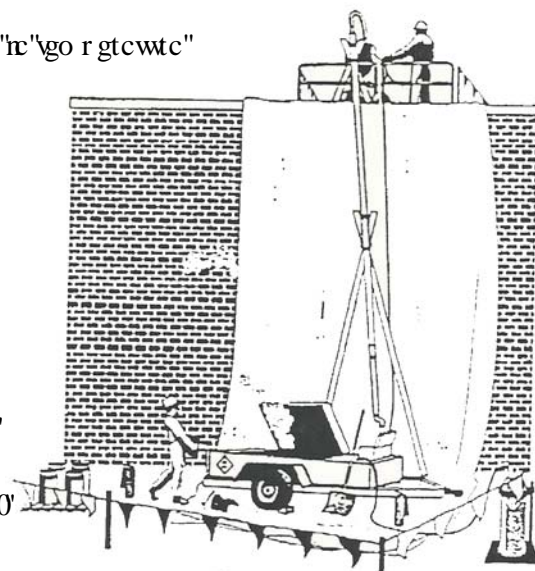
☞ **Ávarias precauciones simples pueden evitar incendios.**

ÉÁ Cn'ecti ct'eqo dwukdng.'cr ci wg'ngu'o qvqtgu'f' 'pq'r gto kc' s wg'pcf kg'hwo g'gp'gn'a tgc0'

ÉÁ Nqu'o cvgtkngu'kphco cdngu'f' 'eqo dwukdngu'f gdgp'o cpvgpgtug' cn'o gpqu'c'32'r kgu'f g'f kucpekc'f g'rc'ecrf gtc0'

ÉÁ Nqu'vcp'wgu'f g'r tqr cpq'p'gegu'kcp'guvct'xgt'vlecu'f' 'co cttcf qu0'

ÉÁ F gdg'j cdgt'r qt'ng'o gpqu'f qu'gz vpvqtgu'eng' CDE'gp'gn'a tgc' r gtq'pq'i wctf cf qu'gp'rc'ecrf gtc0'





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ÉÁ Gpug° ct" c"mqu"go r rñcf qu"ñu"xctkcu"enugu" f g"ecnf gtcu"s wg"r gtvgpg| ecp" c"uw"eqo r c° ¶. " { "ug° cñg"ewcñs wñgt" gñgo gpvq"s wg"ugc" f kñt gpw" f g"wp c"ecnf gtc" c" qñtc0

ÉÁ ecnf gtc" { "s wg"gzr nks wgp"r qt"s w<sup>2</sup>0'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Qrgtcekppgu'f g'Ecif gtc'/'Ecti ct.'Rtgxgpk'Kpegpfkqu'{'Crci ct''

☞ **Ágregue betún y aumente lentamente las temperaturas de la caldera. "**

ÉÁ Eqtvg'gn'dgvÀp"gp'r gs wg° qu'r gf c| qu'o cpglcdnu'{'d' l gmu"eqpewkf cf q"gp"r"ecrf gtc0'

ÉÁ P wpec'r gto kc's wg'hqu'wdqu'f g'rc'ecrf gtc'ug'gzzr qpi cp=guvq'r wgf g'eqpf wekt'c'kpegpf kqu'q"

ÉÁ gzzr nqukppgu0'

ÉÁ Cwo gpvg'rc'vgo r gtcwte'hpwco gpvg'cn'r tpekr kq'f gn'wo q'r ctc's wg'gn'dgvÀp'o ° u'egtec'f g'hqu'wdqu'f g'ecrhceek'p'pq'uqdtgecrkpgvp'{'ucrr ls wgp0

☞ **Ásegure que el betún se mantenga dentro del rango de su temperatura equiviscrsa (EVT) en el punto de aplicación.**

ÉÁ Nc'o glqt'cr nkecek'p'r wgf g'uwegf gt'Àpleco gpvg'ewcpf q'gn'dgvÀp'guv° gp'uw'GXV.'rc'ewcn'r wgf gp"j cmctug'gp'gn'r cs wgvgo'

ÉÁ UK'ug'uqdtgecrkpgv'j c{'f qu'r grki tqu0'Gr'ò cvgtkcn'ug'xqrxgt°'o gpqu'ghlec| 'cnlf gi tcf ctug.'{'j c{'wpc"dwgpc'r qukdtkf cf 'f g'kpegpf kqu'ewcpf q'rc'vgo r gtcwte'f gn'ò cvgtkcn'ug'cr tqzko g'cn'r wvq'f g'kphco cek'p0'

ÉÁ Nqu'wdqu'ckurcf qu'x'iqu'Snwi i gtu\$ecrkepgvu'c{'wf ct° p'c'o cpvgpgt'rc'vgo r gtcwte'f gn'dgvÀp'egtec'f g'uw'GXV0'

☞ **Áleve el equipo de protección personal correcto (PPE) al operar una caldera.**

Gn'RRG'eqttgevg'kpenwf g<'

ÉÁ wp'guewf q'hceknleqpgvevf q'c'wp'ecueq'f g'ugi wtkf cf . 'cttkdc'f g'cpvqlqu'f g'ugi wtkf cf 'q'i chcu="

ÉÁ i wcpvgu'f g'j wgv"eqp'r w° qu'cr tgvcf qu="

ÉÁ wpc'eco kuc'f g'o cpi c'rtci c'cdqvpcf c'cttkdc'f g'hqu'r w° qu'f g'iqu'i wcpvgu="

ÉÁ dqvcu'f g'vtdclq'r gucf cu="{' "

ÉÁ r cpvcnpgu'rtci qu'ukp'xwgn'c's wg'ewdte'p'm'cnq'f g'rcu'dqvcu0

☞ **Ásepa sofocar incendios en caso de que ocurra uno.**

ÉÁ Egttct'kpo gf kvcxo gpvg'rc'vcr c'x'cr ci ct'iqu's wgo cf qtgu0'

ÉÁ UK'gn'egtct'rc'vcr c'pq'gu'uwlekgpv'gpvqpegu'xkgt'c'cr tqzk'"o cf co gpvg'wpc'qpl c'f g'ci wc'gp'gn'ci wltq'f g'xgpkceek'p'"{'gn'xcr qt's wg'r tqf w'ec'cr ci ct°'gn'kpegpf kq0P q'wug'o ° u'"f g'guvc'r gs wg° c'ecp'wcf cf 'f g'ci wc'q'gn'eqpvpgkf q'f g'rc'"ecrf gtc'r wgf g'ucrkug0'

ÉÁ UK'pq'hmpkqpc'plpi wvq'f g'hqu'f qu'o ° vqf qu'o gpekqpcf qu.'"gpvqpegu'wug'wvq'f g'hqu'f qu'gz'vpxqtgu'CDE's wg'f gdgp'guvct'egtec0'

ÉÁ Ugr c'gn'p'Ào gtq'vgrh'pleq'f gn'f gr ctvco gpvg'f g'dqo dgtqu'{' ""guv°'r tgr ctef q'r ctc'mco ctqu0'





***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Qr gt c ekpp gu'f g'Ecif gtc '/'Ecti ct."***  
***Rt gxgpk 'Kpegpf kqu'f 'Crci ct "***

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É Egrgdttc'tr'r n' véc'cn'ncf q'f g'rc'ecrf gtc"{'f go quwtct'e»o q'ug'ecti c0'  
É Gpug° ct'rcu'r ctvgu'f g'rc'ecrf gtc."eqo q'mu'o cp»o gxtqu'f g'vgo r gtcwtc."mu'wdqu'f g'ecrghceek»p."{'rcu"  
gpwtcf cu'f g'r tguk»p0'  
É Gphcveg's wg'pq'o ° u'f g'wpc'qp| c'f g'ci wc'»eqo q'rc'ecpwf cf "f g'wp'ecdcmkq'f g'creqj qn'f gdg'wuctug'r ctc"  
uqhqect'wp'kpegpf kq'f g'ecrf gtc0F go cukcf c'ci wc'ecwuct° f c° qu"{'r qukdrgo gpvg's wgo cf wtcu'ugxgtcu0'  
É J cegt'rcu'r tgi wpcu'uki wkgpvu<"  
" É""äRqt's w° 'gu'o glqt'eqmect'gn'dgvÀp'eqp'ewkf cf q'gp'rc'ecrf gtc'gp'hw ct'f g'uko r ngo gpvg'f glctm'ecgtA'  
" É""äEw° n'gu'rc'xgpwlc'f g'eqtwtm'gp'r gf c| qu'o ° u'r gs wgo quA'  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ñwi i gtü'f'Ecttkqu'f g'Vtcr gct''

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☞ Los "luggers" y los carritos de trapear se diseñaron para transportar lo caliente del tubo de salida de la caldera hasta los empleados."

☞ Cuando no está llenando un lugger, asegure

ÉA s wg'o cpvgpi c'ewdktvq'gn'ewgm'f g'tgmppq.'f''

ÉA eqpgew'wpc'ewdgw'cn'gzvgo q'f gn'wdq'r etc'ci ctct'iqu'i qvgqu'f' 'o cpvgpgt'iko r kc'gn' tgc0'

☞ Cuando Ud. está listo para llenar el lugger, asegure

30 EF 's wg'tgxkug'r etc'xgtklect's wg'rcu'""  
x'a ikwcu'guv'p'egttcf cu.'"

40 A s wg'pq'j c'c'ci'w'pkj'wo gf cf'""  
gp'gn'wi i gt's wg'r wgf c'ecwuct'""  
ucrr kcf wcu'eqp'gn'culcnq."

50 A s wg'eqnq s wg'dmqs wgu'gp'rcu'""  
twgf cu'""

60 A s wg'Wf 0mgxg'gn'gs wkr q'f g'r tq/""  
veekp'r gtupcn'cr tqr kcf q0'  
\*RRG+.'f'""

70 A s wg'pwpec'iq'ngpg'o a u'f g'v'gu'""  
ewctqu'f g'u'w'ecr celf cf 0'

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☞ Después de llenarlo y antes de moverlo, asegure que

80 A gn'eco kpq'guv'p'kxgrcf q'f'f gur glcf q'cpvgu'f g'o qxgt'gn'wi i gt.'"

90 A vqo g'pqw'f g'vqf qu'iqu'r wpgvu'f' 'tco r cu.'f'""

: 0 A rcu'twgf cu'f gn'wi i gt'pq'vgpi cp'gueqo dtqu'f' 's wg'r wgf cp'xqngctug'eqp'hckkcf 'r etc'o kpk k ct'rc'""  
r qudkkcf cf 'f g'xqrecf wcu0'

☞ Use únicamente equipo diseñado para asfalto caliente, incluyendo cubetas y latas de vertir de uso pesado. No modifique el equipo.

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Gn'wuq'f g'wi i gtü'f'ecttkqu'f g'v'cr gq'j c'j' gej q's wg'gn'v'cpur qt v'f g'culcnq'ecrkpgv'gp'wp'vej q'ugc'wp'cuwpvq'""  
tgrv'xco gpv'uko r ng0Vco dk2 p'gu'ugi wtq'eqp'cn'f g's wg'ug'uki cp'hkpgco kpgvu'uko r ngu0Rgt q'uk'Wf 0pq'v'kpgg'""  
ewk cf q'ugc'eqo q'gn'qr gtcf qt'f gn'wi i gt'q'eqo q'v'cr gcf qt.'pq'ugt'a 'pk'uko r ng'pk'ugi wtq0Uk'rkf 0'""  
pq'mgxc'uw'RRG'q'ukj ceg'cn' q's wg'ecwug'wp'f gttco g'f g'culcnq.'Wf 0d'cn' wkgp'o a u'r wgf g'uw'kt'wpc'""  
s wgo cf wtc'ugxgtc0'

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***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Nwi i gt u'f 'Ecttkqu'f g'Vtcr gq''***

É' F go quwtct's wg'gn'r tqeguq'f g'ngpct'wp'hwi i gt.'kpf lect'vqf qu'uwu'grgo gpwqu'f 'gZR nect'rcu'o gf kf cu'"  
 f g'ugi wtkf cf 0'  
 É' Rgto kkt's wg'hqu'o lgo dtqu'f g'rc'ewcf tkmc'go r wlgp'gn'hwi i gt'ewcpf q'guv' 'tgu'ewct wqu'ngpq'r ctc's wg'xgcp"  
 e»o q'ug'ukgpvg'\*cugi wt g's wg'vqf qu'ngxgp'uw'RRG+0'  
 É' Rgf kngu's wg'o kt gp'gn'gej q'f 's wg'ng'f ki cp'ewcms wktg'r gni tq's wg'xgcp'gn'gp'eco kpg'f g'xklg'\*cn'xgl "  
 s wgtt'a "eqmect'cni wpcu'equcu'cn'f'cpvgu'f g'rc'Rrf vlec'f g'J gttco kgpvcu+0'  
 É' J cegt'rcu'r tgi wpcu'uki wkpvgu<'<  
 " É""aRqt's w'ug'f gdg'cugi wtct's wg'pq'j c{ c'j wo gf cf 'gp'gn'hwi i gtA'  
 " É""aEw'ngu'equcu'j c{ 's wg'tgxkuct'cpvgu'f g'o qxgt'gn'hwi i gtA'  
 " É""aE»o q'ug'f gdg'ngpct'ngu'hwi i gt uAaNqu'ecttkqu'f g'vcr gqA'  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

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## GñVwdq'Ecñkpgw''

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**El tubo caliente transporta lo caliente de la caldera al techo.  
Debe mantenerse en buenas condiciones de funcionamiento y debe prepararse correctamente.**

30A Nqu'wdqu'ecñkpgw'u'f gdgp'eqmectug'mq"  
o a u'xgtñkclñr qukdñr'r ctc'gñkct's wg'ug'"  
eqo dg0'

40A Nqu'wdqu's wg'ug'f gdgp'gz vpgf gt'wpc'f ku'"  
vpekc'ñwvpekcñrñf gdgp'cr q'ctug0"

50A Gñckñrñt'ñqu'twdqu'c' wf c'c'o cpvgpgt'ñr"  
vgo r gtcwñc'eqttgevc'f'eqpñtñrñt'xcr qtgu'"  
gzegukxqu0'

60A Gñ'gzñtgo q'f gñ'wdq'f gdg'eqpgewctug'c'wp"  
wdq'f g'eqf q'f g'342'ñ tcf qu'f'wpc'"  
o cpi wgtc'f g'ñcñkf c'ñpñz kñg0'

70A Co cttg'gñ'wdq'c'wp'r cuco cpqu'wñtq"  
uqr qtñg'lpo gf kñcwo gpñg'f gur wñ u'f g'eqmñ/"  
ectñg'gp'gñ'ñgej q0'

80A Nqu'tkñgu'f g'ñgi wñkf cf'f gdgp'gtñi kñug"  
cñño gpqu'ecf c'ñr kñu'30ñ'o gñtqu+'"  
f g'ecf c'ñf q'f gñ'wdq0'

90A Gp'ñq'r qukdñg.'eqmñs wg'wpc'ñpñc'gp'gñ'ñf q'"  
f gñ'gf kñkñq'cññf q'f gñ'wdq0"

0A Ekñttg'gñ'a tgc'cdclq'eqp'dctñkñcf cu'r ctc'gñkct's wg'ñr'i gpñg'eco kpg'gp'gñ'a tgc0"

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Cf go a u'k'

☞ **Asegure que los tubos estén limpios y secos y que todas las uniones estén seguras y en buenas condiciones.**

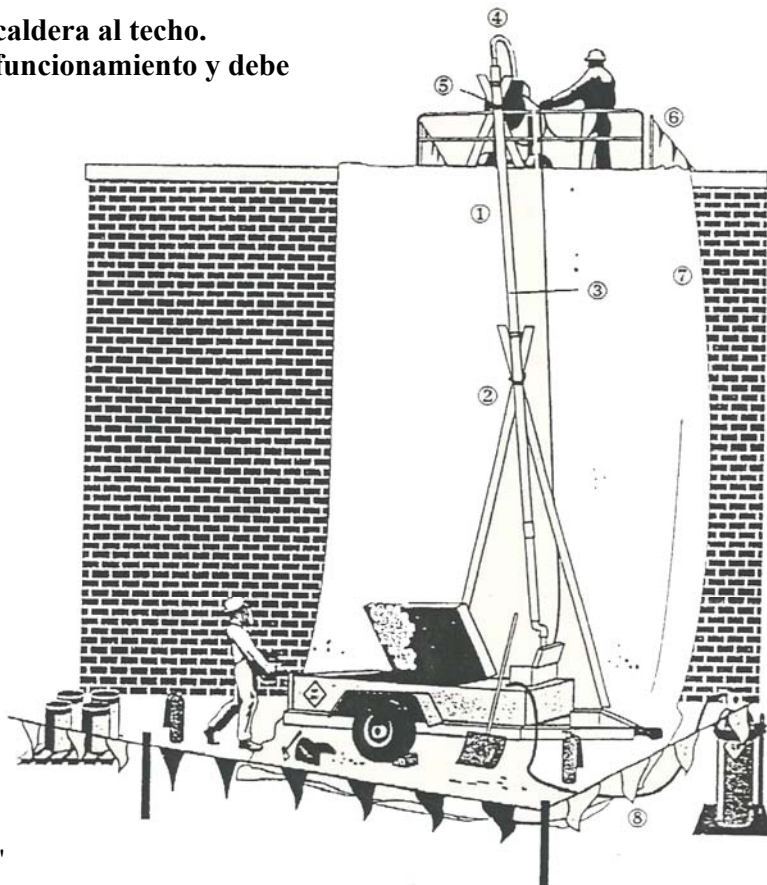
☞ **Siempre desconecte los tubos antes de limpiarlos con un soplete de propano. Si los calienta cuando están conectados, la presión aumentará y los tubos pueden explotar**

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Nqu'wdqu'ecñkpgw'u'gñko kpcp'gñrñ tñdñgo c'f g'g'e»o q'tcpur qtñt'eqp'ter kf gñ'cñkñq'ecñkpgw'cñ'ñgej q0Gñ'  
uku'vgo c'r tñxggñ'a'ñr'ecpñkf cf'f g'cñkñq'ñs wg'ug'pgegukñg.'eqp'wp'bo ñpko q'f g'r tñdñgo cu00 cpvgpi c'dkñp'ñqu"  
wdqu'f'cñgi vñtñg's wg'gññp'eqpgewcf qu'eqp'ñkñto gñ' c'wpñq'cññqtñq'f'cññkññf g'ñgi wñkf cf'gp'gñ'ñgej q0UKWñf0j ceg"  
gñxcu'equcu.'f'ñki wg'ñqu'qtñqu'r wpñqu'f g'gñc'Rññ ñkñc'f g'J gñtco kpgñcu.'gpñqpegu'Wñf0r qñf t'a'eqpñgi wñk'qñf q'ñq"  
ecñkpgw'ñs wg'pgegukñg'f'cñño kñu q'ñkgo r q'tñgf wñk'cñño ñpko q'gññkñgi q'f g'ñgñkñpñgu'r gñuqpcñgu'q'f c'o qu'c"  
r tñr kñf cf0'

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## *Eqpuglqu'f g'Gpvt gpc o kgpw'f gnVwdq'Ec kgpw'""""*

É Gpug° ct"e"re"ewcf tkre"re"o cpgtc"fg"o qpvtc"nqu"wdqu"{'co cttctnqu"gp"gnlkgnf g'ugi wtkf cf"fgn\gej q0'

É F go quvtct"e»o q'hko r kct"eqttgevc o gpw'wpc"ugeek»p"fg"wdq0'

É J cegt'ru'r tgi wpcu'uki wkpvgu<

" É""äRqt's w² "nqu"wdqu"pgegukcp"eqmectug"nq"o ° u'xgtvlecn'r qukdngA'

" É""äRqt's w² "pq'ug'r wgf g'hko r kct"gn'wdq'eqp"wp'uqr rgvg'fg'r tqr cpq'ukp'j cdgt"fgueqpgevcf q'ru'ugeekppgu""  
""f gn'wdqA'

" É""ä'Ew³ ngu'o gf kf cu"fgdgp"vqo ctug'r ctc'r tqvgi gt"gn'gf khek"{'nqu'r gcwppgu'egtecpquA'

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### ALL ATTENDEES MUST SIGN

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Cuwpvqu'Fkxgtuqu'f g'Nko r kg/c''

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☞ **Los trabajos de techos, especialmente el arranque de techos, crean grandes cantidades de escombros."**

ÉÁ Nqu'o cvgtkrgu'cf lekqpcrgu'cm cegpcf qu'gp'gn'uklk'f g'vtdclq'tgr t gugpvc'wp'r grki tq."{ 'r wgf gp" eqpf wekt" c'tqr kg| qu"{' ec'f cu0'

ÉÁ Gu'o a u'l'f eknko r kct'rc' dcutc' r qeq'c' r qeq's wg'gur gtct' rko r kctm'vqf q'cnhkpch'f gn'f'c0'

☞ **La buena limpieza incorpora lineamientos simples.**

ÉÁ O cpvgpgt'vqf qu'qu'o cvgtkrgu'{' dcutc'rglqu'f g'gpvcf cu'f' ucikf cu'{' gn'v'a hkeq'f g'r gcxqpgu'pqto cñ0'

ÉÁ Nqu'o cvgtkrgu'{' gn'gs wkr q'f gdgp'cm cegpctug'cn'o gpqu'c'ugku'r kgu'f g'f kucpeke'f gn'dqtf g'f gn'vej q0' ucikq'gp'qu'vtdclq'f g'vclcu'{' f g'o gvcnf qpf g'qu'o cvgtkrgu'r wgf gp'cr kctug'c'v'gu'r kgu'f gn'dqtf g'f gn'vej q0'

ÉÁ Ncu'j gttco kpgv'f' gn'gs wkr q'f gdgp'i wctf ctug'f gur w' u'f g'uw'wug0'

ÉÁ Nqu'o cvgtkrgu'f g'vej q'xklq' dcutc.'o cf gtc'f g'f gugej q.'gpxcugu'f g'o cvgtkrgu.'{' qvtqu'gueqo dtqu' pgegukcp'grko kptug'gp'kpgtxcmu'tgi wctgu0'

ÉÁ Vqf qu'qu'f'f' wkr qu'kphco cdmu'f gdgp'cm cegpctug'gp'rcu'f g'ugi wtkf cf'cr tqdcf cu0'

☞ **La limpieza incluye el almacenamiento debido de materiales y equipo.**

ÉÁ Cm cegpg'qu'o cvgtkrgu'{' gn'gs wkr q'gp'hqto c'eqttgevc'r ctc's wg'pq'ug'f c'o gp'pk'ug'tqdgpo0'

ÉÁ Cugi wtg's wg'gu'p'ugi wtqu'vqf qu'qu'chkcpl co kpgv'f' r'cu'mpcu0'

☞ **La limpieza mala representa peligros a empleados, espectadores, y propiedad."**

ÉÁ Ncu'rgukpgu's wg'tguwngp'f g'tgudcrtug.'tqr gl ctug.'{' r'cu'j gtf cu'r wpl cpvgu'uq'p'v'w'q'ckl wpcu'f g' r'cu'rgukpgu'eqtr qtcrgu's wg'rcu'r gtuqpcu'r wgf cp'uwht k'gp'wp'hwi ct'f g'vtdclq'uwekq0'

ÉÁ Uk'qu'gueqo dtqu'gu'p'gp'gn'vej q'{' r'xklp'v'qu'ingxc'c'rc'vgttc.'r wgf g'j cdgt'f c'o qu'c'r gtuqpcu'q' r tqr kgf cf 0'

ÉÁ F wcpvg'rcu'qttpgpvcu'f g'mwlc.'rc' dcutc'{' qu'gueqo dtqu'r wgf gp'cvqtct'qu'f tgpclgu'{' r wgf gp" ecwuct'kpwf cekpgu'q'wp'eqrrr uq'f gn'vej q0'

ÉÁ Nqu'tcr qu'go r cr cf qu'f g'uqrgpvgu'tgr t gugpvc'wp'r grki tq'f g'kpegpf kg'uk'pq'uq'eqmcep'gp'gpugu' eqp'vcr cu0'

ÉÁ Nqu'qewr cpvgu'f g'gf hlekqu'r wgf gp'uwht k'kpeqpxgplgpvgu'q'rgukpgu'uk'pq'ug'o cp'kpgp'f gur glcf cu' r'cu'twcu'f g'ceegu'f' g'uecr g0'

"

Wp'uklk'f g'vtdclq'uwekq'r wgf g'tguwngt'gp'wp'f wg'o q'f g'gf hlek'pq'eqpvgp'f'{' wpc'tgr t gugpvc'p'r ctc'uw' eqo r c'o'c'pq'o w' hcxqtdrg0'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Tgo qekp'f g'Dcuwt c'f gñVgej q'''

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☞ **Los proyectos de techos crean grandes cantidades de basura que necesitan controlarse."**

É Nc'dwpc'rko r kgl c'gu'ko r qt wpc'gp'wp'vgej q'

É Nc'o cd'rko r kgl c'etgc'eqpf lekpgu'f g'tgudcrt.'tqr gl ct.'  
ecgtug.'{ 'r gñi tqu'f g'ngukpgu'r wpl cpwgu'

Nc'o cr'rko r kgl c'etgc'vco d'gp'wpc'ko ci gp'pq'r tqhguakpctf'

Gp'vgej qu'f g'o gpqu'f g'42'r kgu'f g'cnwtc.'rc'dcuwtc'{'rqu''

gueqo dtqu'r wgf gp'vktctug'j cekc'cdclq'eqp'rcu'o cpqu.'r gtq'f gdg''

j cdgt'wp'Ukugo c'f g'r cuco cpqu'r ctc'gxxct'ec'f cu0'

☞ **Los conductos brindan uno de los métodos más seguros de remover la basura del techo.**

③ Á Nqu'eqpf wexqu'f g'dcuwtc'ug'tgs wkt gp'ewcpf q'ngu'vgej qu'  
wkpgp'o a u'f g'42'r kgu'f g'cnwtc0'

④ Á F gdgp'guvt'co cttcf qu'cn'gf kkek0''

⑤ Á Wp'ukugo c'f g'r cuco cpqu'f gdg'guvt'crtgf gf qt'{'f gw'a u'f gñi'  
eqpf wexq0''

⑥ Á Ercxg'wp'r gf c| q'f g'o cf gtc'f g'4'z'6'r wi cf cu'lwxq'gp'lt gpv0''  
f g'rc'cdgtwte'f gñeqpf wexq'r ctc'ugt xk'f g'vqr g'r ctc'gñecttkq'''  
f g'o cpq0'Guq'hcekkct'a'gñxqngct'{'f glct'ecgt'rc'ecti c0''

⑦ Á Wpc'ecf gpc'f gdg'wuctug'r ctc'egtct'rc'cdgtwte'cñeqpf wexq'f g'dcuwtc'ewcpf q'pq'j c'{'cevxkf cf'gp'gñi'  
eqpf wexq0'''

☞ **No sobrecargue los carritos de mano.**

É Á O cpvgpi c'rc'ecti c'dclc'x'dcncpegc'c'cn'tcpur qt vct'dcuwtc'cñeqpf wexq0'

É Á Cn'xqngct'c'k s wktf c'q'f gtgej c'wp'ecttkq'f g'o cpq.'lperkp'ri gtco gpw'uw'ewgtr q'j cekc'rc'xwgn0'

É Á Uk'gñecttkq'f g'o cpq'ug'ng'guecr c.'uw'ngm0'Gu'o glqt'guq's wg'ngukpct'wp'o Áewwq0'

É Á Gp'ngu'f'cu'f g'ecmt.'gñ'o cvgtkñr wgf g'r gi tctug'cñecttkq'f g'o cpq.'j cekgpf q'r gñi tquc'rc'ceekp'f g''  
xqngct'gñecttkq0'Q'o cpvgpi c'gñ'o cvgtkñr qlcf q'q'ngxg'ecti cu'o a u'r gs wg'o cu0'

É Á Ncu'eco cu'o a u'i tcpf gu'r wgf gp'tgs wgtk'gñ'wuq'f g'wp'ecttkq'tng'dcuwtc'f g'ugt'lekq'r gucf q'eqp'f qu''  
twgf cu'f gncpvtcu.'q'gs wkr q'f g'r qvpekc'eqp'tgo qñs wgu0'

☞ **El uso de grúas para remover escombros crea preocupaciones adicionales para seguridad en el techo.**

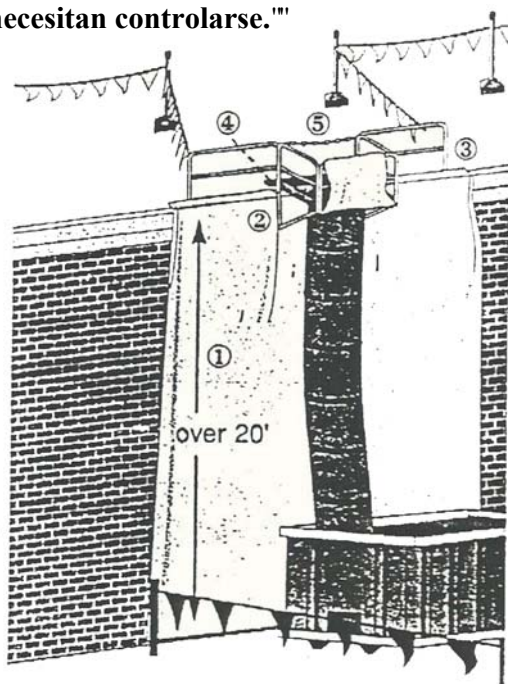
É Á Wp'r cuco cpqu.'q'tkñf g'ugi wtkf cf.'f gdg'eqmectug'gpyt'g'gñ'tcdclcf qt'{'gñ'dqtf g'f gñ'vgej q0'Uk'ug's wkc''  
wpc'r qtekp'f gñr cuco cpqu.'ug'f gdgp'wuct'cr ctctqu'f g'r qulekp'eqp'cpf cf qt gu'eqtr qtcrgu0'

É Á P kpi Àp'r gtuqpcñf gdg'o gvgug'f gdclq'f g'wpc'ecti c'uwur gpf kf c0'

É Á Cn'tcdclct'eqp.'q'egtec'f g.'rcu'i t Àcu.'ngu'ecuequ'f g'ugi wtkf cf'f gdgp'ngxctug0'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## G{g'Rt qvgevkqp'''

☞ **Es importante usar protección ocular para minimizar el riesgo de lesiones.** "

☞ **Hay diferentes clases de protección ocular usadas en la industria de techos.**

ÉÁ Ncu'f kgtgpgu'emugu'uqp<

ÉÁ Cpvglqlu'f g'ugi wtkf cf '\*emtqu.'f g'tgegc'o 2 f kcc.'" q'j wo gcf qu+eqp'gucwf qu'rcvgtcgu."

ÉÁ I chcu.'f'''

ÉÁ Guewf qu'hcekngu0'

ÉÁ Vqf c'rc'r tqvgeekp'qewrt'f gdg'vgpgt'rc'kpf k'" ecekp'CP UK\ : 90Vf kcco gpg. 'hqu'gpgu'" quewtqu'pq'ngxcp'guc'cr tqdcekp'f' 'pq'f gdgp'" ngxctug'gp'gn'tcdclq0'

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☞ **Considere siempre el trabajo que Ud. hará para que pueda escoger la protección ocular correcta.**

ÉÁ Cni wpqu'f g'hqu'r gni tq'u'o c{ qtgu'c'hqu'qlqu'" uqp'iq'ecrkpgv. 'rcu'uwucpekcu's wfp kccu.'" j gttco kpgcu'f g'r qvgekc. 'emxqu'xqrcf qtgu.'" { " gueqo dtqu'f g'wp'cttcps wg0'

ÉÁ Nqu'qr gtcf qtgu'f g'ecrf gtcu'f' 'hqu'vcdclcf qtgu' f'g'cmgt'f g'ej cr c'f g'o gcnlf gdgp'ngxct'wp'gucwf q'hcekneqo r ngv0Ncu'i chcu'f gdclq'f gn'gucwf q' dtkpf ct'a p'r tqvgeekp'cf kckpcc0'

ÉÁ Ncu'i chcu'f gdgp'ngxctug'f wcpvg'rcu'qr gtcekpgu'f g'eqtvt'gn'vgej q.'wuct'rc'dcttc'f g'r cmpec'Sur wf .\$. gn'cttcps wg.'tkwtct.'" { "cur kct'gn'vgej q0'

ÉÁ Wp'gucwf q'hceknef g'uqrf cf wtc'eqp'gpgu'j wo gcf qu'cr tqr kcf qu'f gdg'ngxctug'f wcpvg'ewcns wkg't' qr gtcekp'f g'uqrf cf wtc0'

☞ **Asegure que su protección ocular se r. iuste para que le quede bien y que se mantenga en buenas condiciones.**

ÉÁ Uw'r tqvgeekp'qewrt'f gdg'guct'rk'o r kcc'f' f'kur qpkdng'r etc'wuq'kpo gf kcvq0'

ÉÁ Nqu'gpgu'quewtqu'r wgf gp'tgf wek'vgpukp'gp'hqu'qlqu'r etc'cni wpqu'vcdclqu0'

☞ **Apre lo que hacer en caso de emergencia.**

ÉÁ Cr tgpfc'hqu'r tko gtqu'cwz ktku'd'a ulequ'r etc'vctvt'wpc'ngukp'qewrt0'

ÉÁ Ugr c'ukgo r tgf »pf g'guy p'rc'dqvgm'f g'rcxct'qlqu'f' 'gn'dqvs wfp'f g'r tko gtqu'cwz ktku0'

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ÉÁ äRqt's w² "nguqr gtcf qtgu'f g'ecrf gtcu'f gdgp"mxxct "wp"guwf q"lcekn'ego r ngvA"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## I wcpvgu 'Tqrc'{'' crcvqu'

☞ **Los guantes brindan protección sustancial para las "manos."**

ÉÁ Nqu'i wcpvgu'f g'cni qf »p'uqp'cr tqr kcf qu'r ctc'r grki tqu"  
i gpgtcrqu'f gr'uklkq'f g'vtdclq0'  
ÉÁ Tgxkug'rc'O UF U'q'r tgi wpg'c'uw'uw' gtXluqt'cegtec'f g'"  
rc'r tqveek»p'o a u'ghlec| "eqpvc'uqrgpvgu'{' qv'cu'uwu/"  
vpeku's w'bo lecu0'  
ÉÁ Grlewgtq'r tqxgg'r tqveek»p'uw' gtkt'ewcpf q'vtdclc'"  
eqp"cu'cnq'ecr'epvg'x'ej cr c'f g'o g'v'cn'r gtq'uqp'cegr v/"  
drgu'hqu'i wcpvgu'f g'cni qf »p'i twguq0'



☞ **Su ropa es la mejor línea de defensa contra los elementos y contra peligros de trabajo.**

ÉÁ Ncu'eco ku'cu'f g'o cpi c'rti c'{' 'r c'p'wmpgu'rti qu'ukp"  
xwgn'dtkpf ct'a p'cri »'f g'r tqveek»p'f gr'cu'cnq'ecr'epvg'cu'eqo q'f g'hqu'tc{' qu'uqrc'gu'wmc/xkrgvqu"  
s wg'r tqf wegp'e'a pegt0'  
ÉÁ Nc'tqr c'f g'eqmt'ertq'x'f g'hdte'pcwtcr's wg'ewdtc'uw'qtuq.'dtc| qu.'{' 'r kgtpcu'gp'tgcrkf cf 'Lg"  
o c'p'vpt'a p'o a u'htgueq's wg'uk'pq'ngxc'vpc'tqr c'0'Wp'uqo dtgtq'c{' w'ct'a 'vco dk'p0'  
ÉÁ Nc'tqr c'f hwgtg'f g'hdte'pcwtcr'gu.'eqo q'gr'cni qf »p'q'rc'rcpc.'hg'r tqvgi gt'a 'f g'v'cf c'ercug'f g'tcur cf wcu."  
o qtgvgu'{' 's wgo cf wcu0'

☞ **Las botas protegerán sus pies de objetos puntiagudos, pesados, y calientes.**

ÉÁ Ncu'dqvcu'f g'eqputweek»p'cttkdc'f gr'vqdkm'eqp'rc'rtvg'uw'gtkt'f g'ewgtq'{' 'rcu'uwgrcu'r gucf cu'uqp'rc"  
hqtto c'o a u'cr tqr kcf c'f g'ecr q'r ctc'wpc'i tcp'ecp'kf cf 'f g'vtdclqu'f g'v'ej qu0'  
ÉÁ Nqu'f gf qu'f g'r kg'f g'cegtq'vtdclq'ct'a p'r tqveek»p'cf lekqpcr0'  
ÉÁ Ncu'uwgrcu'f g'uwu'dqvcu'f gdgp'ugt'cr tqr kcf cu'r ctc'rc'ercug'f g'ukugo c'f g'v'ej q's wg'guv' 'kpuvrcpf q0'

Ukugo c'f g'v'ej q'

V'ej q'gp'ecr cu"

Ukugo cu'f g'wpc'uqr'ecr c'"

Vglcu'f g'cu'cnq"

Uwgrcu'f g'dqvc'kf gcrqu"

uwgrcu'f g'j w'g'eqo r wguq"

uwgrcu'f g'pgqr tgpq lj w'g"

uwgrcu'f g'j w'g"

Nqu'i wcpvgu.'rc'tqr c'{' 'qu' cr cvqu'uqp'eqo r qpgpvgu'ko r qtvcpgu'f g'uw'gs wkr q'f g'r tqveek»p'"

r gtuqpcr0'Nc'eqo dlpcek»p'eqttgvc'hg'r tqvgi gt'a "eqpvc'rc'o c{' qt'r ctvg'f g'hqu'r grki tqu.'gp'gr'uklkq'f g'vtdclq0'



***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'I wcpvgu 'Tqrc'{'\ crcvqu''***

ÉÁ Gpug° ct'xctkcu'encugu'f kgtgpvgu'f g'i wcpvgu'{'dqvcu0J cdrt'f g'r qt's w² 'f kgtgpvgu' cr cvqu'{'i wcpvgu'uqp"  
cr tqr kcf qu'r ctc'f kgtgpvgu'vcdclqu0'  
ÉÁ Nrgi ct'c'rc'r t gugpvcek»p'eqp"wp"RRG"pq"cr tqr kcf q"{'r gf k'c'rc'ewcf tkmc's wg"eqo gpvg"cegtec'f g'uwu"  
ÉÁ i wcpvgu."tqr c."{'\ cr cvqu0'  
ÉÁ J cegt'rcu'r tgi wpcu'uki wkgpvgu<"  
ÉÁ äRqt's w² "gu'ukgo r tg"wpc"dwgpc'kf gc'ngxct"wpc"eco kuc"gp'iqu'r tq{ gevqu'f g'gej quA'  
ÉÁ äRqt's w² "pq'ug'f gdgp'ngxct'r cpvcmpgu"eqp"xwgnc"cn'vcdclct'eqp"cuhcncq'ecrkpvga'  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ecuequ'f g'Ugi wtkf cf''

### ☞ **Á**leve un casco de seguridad.

ÉÁ ukgo r tg's wg'j c { c'tcdclq'cttkdc'f g'Wf 0=

ÉÁ cn'tcdclct'egtec'f g'wp'cr ct glq'q'í t Àc=

ÉÁ uk'Wf 0'tcdclc'egtec'f g'gunt wewtcu'dclcu'eqo q'wdqu'q'''  
crgtqu=q''

ÉÁ eqp'wp'güewf q'hcekn'uk'Wf 0'gu'gn'gpectpcf q'f g'rc'ecf gtc0'

### ☞ **Á**como es el caso con cualquier otro equipo de protección personal, el casco de seguridad debe inspeccionarse de forma regular y debe llevarse debidamente.

ÉÁ Vqf q'ecueq'f g'ugi wtkf cf 'f gdg'vgpgt'wp'ukugo c'f g'uwur gpuk»p's wg'cduqtdc'gn'ko r cevq'f g'wp'qdlgvq''  
s wg'ecg0'

ÉÁ Gn'ukugo c'f g'uwur gpuk»p'f gdg'kpur geekqpctug'tgi wnto gpvg'r ctc'f gvgevt'f c° qu0'

ÉÁ Nqu'ecuequ'eqp'ctc° c| qu'r tqhwf qu'q'í tkgvcu'f g'ewcns wket'ercug'f gdgp'ugt'tggo r nc| cf qu0'

ÉÁ Gn'ecueq'f g'ugi wtkf cf 'f gdg'ngxctug'eqp'gn'cm'j cek'gn'ht gpvg'r ctc'r tqvgi gt'eqo r ngvco gpvg'uw'ectc'f g''  
mu'qdlgvqu's wg'ecgp0'

ÉÁ Vqf qu'mu'ecuequ'f g'ugi wtkf cf 'f gdgp'ngxct'nc'o ctec'f gn'f b dqm'f g'CP UK0'

ÉÁ Ukgo r tg's wg'gn'ecueq'f g'ugi wtkf cf 'uw'htc'wp'ko r cevq'ugxgtq'f gdg'ugt'kpur geekqpct q0'Uk'rc'uwur gpuk»p''  
ug'j c'f c° cf q'r wgf g'tggo r nc| ctug.'r gtq'uk'gn'ecueq'0' kuo q'guv' f c° cf q'gpvqpegu'vqf q'gn'ecueq'f g''  
ugi wtkf cf 'f gdg'wtctug0'

### ☞ **Á**su casco de seguridad debe mantenerse en buenas condiciones.

ÉÁ P q'j ci c'ci wltqu'eqp'wp'vcmf tq'gp'gn'ecueq'f g'ugi wtkf cf 'eqp'gn'hp'f g'cwo gpvct'rc'xgpvkrek»p0'Guq''  
f gdlrkcc'gn'ecueq''{ 'cn'xgl'pq'r qf t'a 'tgukuk't'rc'hwgt| c'f g'wp'ko r cevq0'

ÉÁ P q'r kpvg'pcf c'gp'gn'ecueq'f g'ugi wtkf cf 'r qts wg'o wej cu'r kpwtcu'eqpvkgpgp'uqrxgpvgu's wg'f gi tcf cp'qu''  
r f ulequ0'

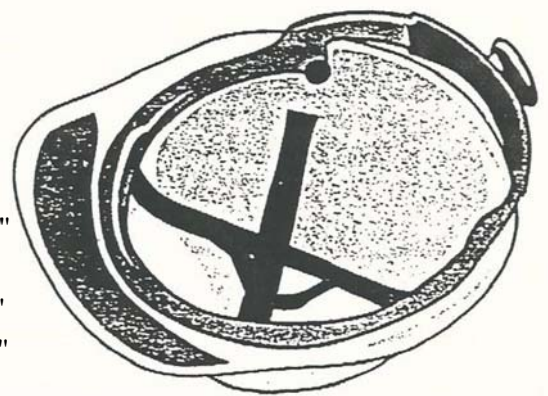
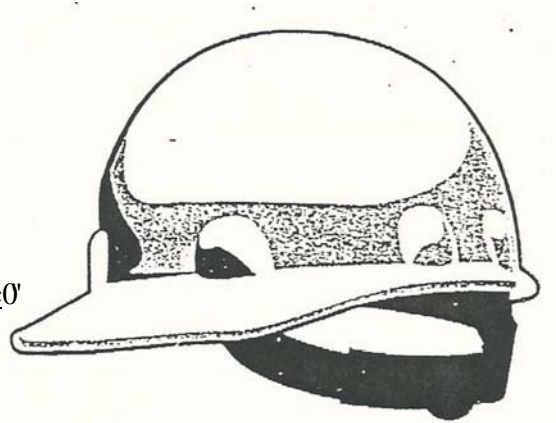
### ☞ **Á**los cascos de seguridad necesitan llevarse sin importar las condiciones climatológicas.

ÉÁ Gp'mqu'f'cu'f g'xkpgvq.'rc'eqttgc'f g'ecdgl c'f gdg'clwuctug'''  
r ctc'o cpvgpgt'gn'ecueq'gp'uw'ecdgl c0'Ug'r wgf gp'wuct'vco /''

dlk'p'mqu'dctdqs wglqu'r ctc'cugi wtct'gn'ecueq'gp'uw'ecdgl c0'

ÉÁ F wcpvg'mqu'o gugu'f g'kpxkgtpq.'ug'r wgf g'kpucnct'wp'hqttq'''  
f g'o wgw»p'f kug° cf q'r ctc'ecuequ'f g'ugi wtkf cf 'crtgf gf qt'f g'''  
rcu'eqttgcu'f g'uwur gpuk»p0'

ÉÁ Gp'gn'xgtcpq'Wf 0'r wgf g'r gpuct's wg'guvct'a "o a u'ht gueq'ukp'gn''  
ecueq'f g'ugi wtkf cf .r gtq'gn'wuctrq'gp'tgcnk cf 'rg'o cpvgpf t'a ""  
o a u'ht gueq'cn'r tqvgi gtrg'c'Wf 0'f gn'uqrf0'











## Rt qvgeekp'f g' Cwf lek p'''

☞ **La protección de audición muchas veces se olvida como una formna de equipo de protección personal (PPE), pero Ud. necesita proteger su audición tanto como sus oJos o cualquier parte de su cuerpo."**

ÉÁ C'f kgt gpek'f g' q'cu'rgukppgu.'eqo q'rcu'eqtvcf cu'{' 'qu'j wguqu'htcewtcf qu.'rc' r' 2 tf kf c'f g'cwf lek p'"  
o vej cu'xgegu'ctf c'gp'r t gupvctug0'

ÉÁ Wf 0'cn'xgl 'etgg's wg'guv' cequwo dtcf q'c'qu't wkf qu'hwgtvgu'cuqekcf qu'eqp'rc'eqputweekp0Rgtq'cwp'uk'  
gnt wkf q'pq'rg'o qrguc.'f g'qf qu'o qf qu'Wf 0'guv' 'gp'tkgui q'f g'f gucttqmt'wpc'r' 2 tf kf c'f g'cwf lek p0'

ÉÁ Eqphqto g'rc'i gpvg'gpxglgl ec'uw'cwf lek p'f gi gpgtc.'mq'ewcn's wktg'f gek'ts wg'ug'f gdrkxc0Nqu'cr ctequ'  
r ctc'uqtf qu'r wgf gp'co r rkklect'qu't wkf qu's wg'q{ gp0Nc'r' 2 tf kf c'f g'cwf lek p'gp'gntcdclq'gu'  
f guntwekxq.'Lq'ewcn'uki pkkec's wg'gn'q'f q'ug'f c'o'c'.'pq'u'ng'ug'f gdrkxc0Nqu'cr ctequ'r ctc'uqtf qu'pq'  
r wgf gp'eqo r gput'guc'encug'f g'r' 2 tf kf c'f g'cwf lek p0'

ÉÁ Vqf qu'qu'gu'ku'f g'r tqveekp'f g'cwf lek p'vpgp'ecrkkceekQpgu'f g'tgf weekp'f g't wkf q'P TT +0Gpvt g'  
o 'a u'cnq'guvg'pAo gtq.'o c{ qt'gu'rc'r tqveekp'dt kpf cf c'r qt'gn'cr ctequ0Ncu'P TTu'r wgf gp'gpeqpvtctug'  
gp'gn'r cs wvg'f g'rc'r tqveekp'f g'cwf lek p0'

"

☞ **Una clase de protección de audición que se usa comunmente en la construcción es la clase que se lleva en la oreja.**

ÉÁ Rqt'rq'i gpgtcn'guc'encug'ug'j ceg'f g'gur wo c'f g'g'zr cpukp'f gugej cdng'q'dkcp'gu'f g'rc'encug'gpvcnrf q'  
f g'wuqu'o Ankr ngu0'

ÉÁ P q'xwgrkc'c'wuct'vcr qpgu'f gugej cdngu0'

ÉÁ Gu'lo r qtvcpg'rggt'{' 'ugi wkt'vqf cu'rcu'lpuntweekppgu'cn'ngxct'gur wo c'f gugej cdng0Nc'gur wo c'  
f gugej cdng'tgs wktg's wg'gn'vcr »p'ug'gptqng'gpvtg'qu'f gf qu.'ug'kpugtvg'gp'gn'ecpcnlf g'rc'qtglc.'{' 's wg'ug'  
f gvgpi c'gp'uw'hw'ct'j cuvc'rc'g'zr cpukp'eqo r rvc'f g'rc'gur wo c0'

ÉÁ Nqu'vcr qpgu'f g'wuqu'o Ankr ngu'f gdgp'rko r kctug'''  
ecf c'xgl 's wg'ug's wkgp'f g'rc'qtglc0'

"

☞ **Otra clase de protección de audición usada en la construcción es la clase que se lleva sobre la oreja (llamada audifonos de proteccion):**

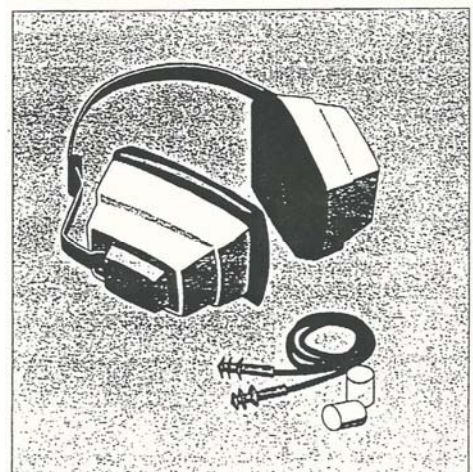
ÉÁ Guqu'r wgf gp'o qpvtug'f kgevc gpvg'gp'qu'ecuequ'''  
f g'ugi wkf cf 0'

ÉÁ Rqt'rq'i gpgtcn'qu'cwf'qu'qu'qht gegp'wp'i tcf q'f g'r tqveekp'''  
rki gtc/o gpvg'o 'a u'cnq's wg'rc'encug's wg'ug'ngxc'gp'rc'qtglc0'

"

Nc'r tqveekp'f g'cwf lek p'f gdg'wuctug'ukgo r t g's wg'ug'qr gtg'gn'gs wkr q'''  
twkf quq.'eqo q'uqp'qu'eqpcf qtgu'f g'vgej qu'{' 'rcu'ulgttcu'f\$ew/qht0)'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Gs wlr q'f g'Rt qvgeek»p 'Rgt uqp cñ'

☞ **Áleve un casco de seguridad aprobado por ANSI en los casos siguientes:**

ÉÁ ukgo r t g's wg'j c { c'vcdclq'cttkdc'f g'Wf O'

ÉÁ cñ'tcdclct'egtec'f g'wp'cr ct glq'q'í t Àc O'

ÉÁ Uk'Wf O'guv'v'vcdclcpf q'egtec'f g'gust we wt cu'dclcu'eqo q'wdqu'q'crgtqu O'

ÉÁ eqp'wp'guewf q'heclcn'uk'Wf O'gu'wp'gpecti cf q'f g'ecrf gtc O'

☞ **Áleve protección ocular en los casos siguientes: "**

ÉÁ gp'ewcnr wgt'o qo gpvq's wg'ug'g zr qpi c'c'eqtct.'s wgo ct.'cukmct.'vkwct.'cr rlect'ugrk gpvgu'q'ugrf ct O'

ÉÁ Vqf c'rc'r tqveek»p'qewrct'ngxct'a'rc'kpf kecel»p'§CP UK : 9\$0'

☞ **Áleve la protección de audición en los casos siguientes:**

ÉÁ ukgo r t g's wg'guv'egtc'f g'gs wlr q't wlf quq O'Guq'r wgf g'f gvgtkqtct'uw'cwf kecl»p.'"

cu'f's wg'r kf c'vcr qpqu'f g'qt glc'q'cw'f qpqu'f g'r tqveek»p'c'uw'uw'gt xkuqt O'

ÉÁ Gpvt g'o a u'cnc'rc'ecñhecel»p'f g't gf week»p'f g't wlf q'P TT-O'o c { qt'ugt'a'rc' r tqveek»p'r ctc'Wf O'

☞ **Áleve protección de las manos:**

ÉÁ cñ'tcdclct'eqp'cu'cnc'ecñhecel»p'wcpf q'Wf O'gri g'ewgt q'q'cni qf »p.'"

mu'f wcpvgu'f gdgp'guvct'cr tgvf qu'egtec'f gn'r w' q'r ctc's wg'r wgf cp'"

o gvgug'f gdclq'f g'gu'r w' qu'f g'uw'eco kuc'f g'o cpi c'rti c O'

ÉÁ Cñ'tcdclct'eqp'ugrk gpvgu'w'qt cu'uw'wcpcku's w'p lecu OT gxlug'rcu'j qlcu' O UF U'

q'r tgi wpg'c'uw'uw'gt xkuqt'r ctc's wg'r wgf c'gngi k'rc'encug'eqttgvc'f g'f wcpvgu O'

ÉÁ cñ'tcdclct'eqp'rc'ej cr c'f g'o gvcn'f' qvtqu'qdlgqu'chrcf qu O'

☞ **Áleve ropa apropiada a su trabajo en los casos siguientes.**

ÉÁ Cñ'tcdclct'eqp'gn'cu'cnc'ecñhecel»p'rcu'o cpi cu'rti cu'ugp'kpf kur gpucdrgu.'"

cu'f'eqo q'r cpvcnpgu'rti qu'uk'xwnc's wg'ewdtp'm'cnc'f g'rcu'dqxcu'"

f g'vcdclq'r gucf cu O'

ÉÁ Nc'o glqt'r tqveek»p'rc'dtkpf c'rc'tqr c'f g'cni qf »p'q'rc'f g'o gl erkr O'

ÉÁ Gñecñ cf q'f gdg'ugt'f wtf gtq'f' f kug'o cf q'r ctc'gn'vcdclq'f g'eqput week»p O'

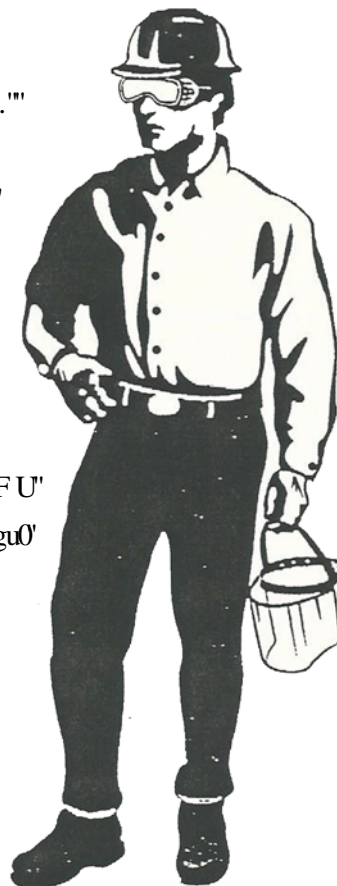
Nqu'f kgt gpvgu'vcdclqu'gzki gp'f kgt gpvgu'encug'f g'r tqveek»p'r ctc'gu'r kgu O'Gñecñ q'g wg'ug'tgs wgtc'c'

f gr gpf gt'a'f g'uw'vcdclq'»cngt'q'gp'gn'eco r q+.'rc'kperkpccl»p'f gn'vej q'»go r kpcf q'q'uwxcg+{ 'rc'encug'

f g'vej q'»gp'ecr cu'f g'o gvcn'f g'glcu O'

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# Pláticas de Herramientas

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## Rt gxgpek»p 'f g'Ngukqp gu'c 'lc 'Gur c if c ''

☞ **Á** la mejor forma de prevenir lesiones a la espalda es de aprender a levantar correctamente. Unos consejos de sentido común pueden ayudarle a evitar lesiones."

ÉÁ Gukg'iqu'o Àewmqu'eqp'ltgewpekc c'c'x<sup>2</sup> u'f gnf'c' r ctc' uqnc't'iqu'o Àewmqu' { 'o cpvgpgt'iqu'r tgr ctef qu' r ctc' gntcdclq0'

ÉÁ Tgxkug'gn'r guq f'g'wp'qdlgvq'cpvgu'f g'ngxcpvctm. r qt'o gf kq'f g'ngxcpvct'wpc'gus wkpc'f g'nc'ecti c0'

ÉÁ Egpubi c'cxwf c'uk'gn'qdlgvq'gu'r gucf q0'

ÉÁ Gp'm' r qukdng. 'wug'gs wkr q'eqo q'cr ctglqu.'ecttkqu'f g'o cpq. { 'o qpwecti cu0'

ÉÁ Tgxkug'gn'eco kpq's wg'r kcpuc'wuct 'cpvgu'f g'o qxgt'wp'qdlgvq' r ctc'cugi wtct's wg'gn'eco kpq'gu<sup>2</sup> f gur glcf q0'

"

30Á Ci cttg'eqp'hkppg| c'gn'qdlgvq's wg'r kcpuc'ngxcpvct0''  
O cpvgpi c'iqu'dtc| qu'f 'eqf qu'egtec'f g'uw'ewgtr q'''

40Á O cpvgpi c'ukgo r tg'gn'qdlgvq's wg'ngxcpvc'egtec'''  
f g'uw'ewgtr q0'''

50Á Ngxcpvg'eqp'icu'r kgtpcu'r ctc'cr q { ct'gn'r guq0'Ngxcpvg'''  
gn'qdlgvq'tgevg'j cekc'cttkdc' { 'pq'ug'i ktg'pk'ug'kperkpg0'''

60Á O cpvgpi c'nc'edgl c'gti wkf c'cn'ngxcpvct. r ctc'''  
o cpvgpgt'nc'gur kpc'f qtucn'gp'uw'r qulek»p'f g'''  
ewxc'pcwtcr0'''

70Á Vtcvg'f g'o cpvgpgt'nc'ewxc'gp'uw'gur cnc'c'''  
kphgtkqt'cn'ngxcpvct0'''

"



☞ **Á** es importante mantener la posición de poder de su cuerpo.

ÉÁ Gn'j cegt'guvq'tgf wekt<sup>a</sup> "o wej q'nc'r qukdnc'f f'g'ngukqpqu' { 'ng'f ct<sup>a</sup> 'gn'o<sup>a</sup> zko q'f g'r qvgpekc'r ctc' ngxcpvct0'

☞ **Á** el conseguir ayuda de otros empleados Je permitirá hacer su trabajo con eficiencia y seguridad.

ÉÁ Uk'wp'qdlgvq'gu'r gucf q. r kf c'cxwf c'c'cxwf c'c'wp'eqo r c° gpq0'

ÉÁ Ego wp's wug 'eqp'nc'r gtuqpc's wg'ng'c { wf c. r ctc's wg'Wf u0'ngxcpvgp' { 'dclgp'nc'ecti c'cn'o kuo q'ukgo r q0'

ÉÁ Gp'm' r qukdng. 'co dcu'r gtuqpcu'f gdgp'ngxct'nc'ecti c'c' o kcpf q'j cekc'cf gncpgv0'

ÉÁ Uk'nc'ecti c'gu'o w { r gucf c. 'vqo g'f guecpuqu0'

"

Vf leco gpvg. 'icu'ngukqpqu'f g'gur cnc'c'pq'qewtgp'f g'wp'iqu'kpkf gpvg0T guwncp'f g'ngxcpvct'f g'hqto c'pq' eqttgevc'f wtcpvg'wp' r gt'qf q' r tqmipi cf q0'Rqt'guq'gu'vcp'ko r qtvcpg'ngxcpvct'eqttgevc' gpvg'tqf cu' { 'ecf c'wpc' f g'icu'xgegu0P wpec'ug'ucdg'iq's wg'r tqxqect<sup>a</sup> 'wpc'nguk»p'f qmqtquc0'''









# Pláticas de Herramientas

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## Tgur qpuc dklf cf gu'f gnlGo r rgc f q''

- ☞ Aunque OSHA requiere que los empleadores brinden un sitio de trabajo seguro, a Ud. le toca la responsabilidad de seguir las reglas."

ÉÁ Vqo g"gp"ugtq"uw'tcdclq"{"ugc'r tqhgukqpcr0Nqu'eqo r c° gtqu"{"qu'enkgpvu"m"gur gtcp"gp"uwu" r tq{ gevqu0'

ÉÁ P q"tcdclg"gp"wp"vej q"uk'Wf 0guv° "dclq"gnlphwq"fg"creqj qnlq"ftqi cu0Wp'r cuq"gs wlxqecf q'r wgf g" eqp/f wek" c'rgukqpgu" c'Wf 0q" c'uwu'eqo r c° gtqu"fg"tcdclq0'

"

- ☞ Es muy importante mantener la buena limpieza del sitio de trabajo. Ud. y sus compañeros pueden ayudar a mantener el proyecto limpio y en orden.

ÉÁ Ngxcpvg"dcuwtc"{"gueqo dtqu's wg'guv° "cnf"r ctc's wg'pq"ug"ngxcpvg"eqp"gn'xkgpvq'pk's wg'ug"eqpxlgtc"gp" wp'r grki tq"fg"tqr gl ct0'

ÉÁ UK'Wf 0f gttco c'cni q."tgxlug"rc"J qlc"fg"Fcqu"fg"Ugi wtkf cf"fg"O cvgtkrgu"°O UF U+r ctc"ewcrs wkg" tgs/wkxq"fg"gs wkr q"fg"r tqvgeekp'r gtupqcn"°RRG+"q"o 2 vqf qu'fg"rko r kgj c0Gpvqpegu"m" r kgm"ukp" f go qtc'r ctc's wg'p»"ug"eqpxlgtc"gp'r grki tq"fg"tgudcmt0'

"

- ☞ Ud. le toca la responsabilidad de llevar el equipo de protección personal (PPE) que sea apropiado para peligros de sitio de trabajo.

ÉÁ Ngxg"uw'ecueq"fg"ugi wtkf cf."cpvqlqu"fg"ugi wtkf cf 0i wcpvqu0r tqvgeekp"fg"cwf lekp0eco kucu"fg" o cppi c'rti c"x"dqcu"fg"tcdclq0Rwgf gp"gxkct's wg"Wf 0ug"hgukqpg"ugtke"q'hcvcm gpvg0'

"

- ☞ Ud. le toca la responsabilidad de reportar a su supervisor sin demora los accidentes o los incidentes que casi fueron accidentes.

ÉÁ Nc"o gvc"fg"tgr qtvt"ceekf gpvgu"q"ecuk'ceekf gpvgu"pq"gu"rc"fg"ecuki ct"q"ko r qpqt"ewr c."ukpq'r ctc"vqo ct" ceekqpgu"eqttgevxcu"r ctc"cuqi wtct's wg"gn'ceekf gpvg"pq"xwgrkc" c"qewttkt0'

ÉÁ Cwp"uk'rc"rgukp"q"lpekf gpvg"r ctgeg'r qec"equc."tgr »tvgm0C"xgegu"rcu"rgukqpgu"ug"go r gqtc"eqp"gn' vgo r q0Rqt"glgo r m."rcu'r gs wg° cu"eqtwf cu"{"hcegtceekqpgu'r wgf gp"lphgevtug"uk'pq"ug"tccvp" f gdlf co gpvg0'

"

- ☞ Reporte todos los actos y condiciones inseguros.

ÉÁ UK'Wf 0gu'vguki q"fg"wp"cevq"r grki tqqu"r qt'r ctvg"fg"wp"eqo r c° gtq."lphqto g" c"uw'uwr gtxluqt0Vcn'xgl" Wf 0gxkct° "cu"l's wg"cri wkgp"ug"hgukqpg0'

ÉÁ UK'Wf 0xg'wpc"eqpf lekp'r grki tquc."eqo q"wpc"guecrgtc"tqvc."vqo g"ceekp'r ctc's wlxctrc"fg"ugt xlekq" g"

ÉÁ lphqto g" c"uw'uwr gtxluqt'r ctc's wg'ug'r wgf c'tggo r m| ct"eqp"wpc"guecrgtc"gp"dwgpcu"eqpf lekqpgu0'



É Vgpqg'txctku'erc ugu'f g'RRG'f kur qpklrgu'r ctc'tgxkuk>p0J cdnrt'f g'ukwcekppgu'gp'rcu'ewcrgu'ug'tgs wkgg'gn'  
RRG0'  
É J cdmrt'f gn'j gej q'f g's wg'ewcpf q'uwegf g'wpc'rguk>p'gp'gn'tcdclq.'gn'go r ngcf q'pq'gu'gn'Àpleq'chgevcf q=  
tgeqtfcrgu's wg'uwu'ho kku'ug'xgp'chgevcf cu'uk'r kgtf gp'tcdclq'{' gn'o c { qtf qo q'f gn'r tq { gevq'vcl'xgl 'pq'  
r qf t<sup>a</sup> 'tgggo r rc| ct'c'dwgpqu'go r ngcf qu0'  
É J cegt'rcu'r tgi wpcu'uki wkgpvgu<  
É Ew'rgu'uqp'cni wpcu'f g'rcu'eqpf lekppgu'r gn'i tqcu's wg'j c'xkux'gp'gn'r cucf q'tgekpgvA'  
É Rqt's w'gu'ko r qtcvpg'tgr qtvt'j cuc'rcu'rgukppgu'o gpqtgu'c'uw'uw'gtxkuqtA'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Hc'vki c'Rqt'Ecrqt''

Ewcpf q'uw'ewgtr q'ug'g'zr qpg'cn'ecrqt. 'uwu'ukugo c'r wgf g'uw'htk'vcpw'v'g'puk'p's w'g'ngi w'g'cn'r w'p'q'f'g'p'q'r qf'gt''  
gph'g'p'ctn'g'h'ec' o g'p'v'g'0'

"

|                               |                                                                         |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                        |
|-------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rtqdrigo c<'<<br>uctr wnkf q" | Ugxgtkf cf <'<<br>ngxg"                                                 | kpf lekqu'{"U'p'xqo cu<'<<br>, 'uctr wnkf q"<br>, 'lpeqo qf kf cf "                                                                                                                                                          | Vtcwo kgpvq<'<<br>, 'eco dkq'f'g'tqr c"<br>, 'wuq'f'g'r q'rkq'q'etgo c'o gf k'ecf c"                                                                                                                                                                   |
| ecrco dtg"<br>r qt'ecrqt"     | ngxg"                                                                   | , 'ecrco dtgu'gp'i twr qu.'f'g"<br>o A'ewwqu'eqo q'ic'gur c'nf c.'ic'u"<br>r k'etp'cu.'{"r t'lek'c'mo g'p'v'g'gp'gn'<br>cdf qo gp"                                                                                           | , 'vqo ct'tcd'ng'cu'f'g'g'rg'ew>rkqu."<br>dgdkf cu'eqp'g'rg'ew>rkqu."q'j'cuw<br>r cr cu'ht'k'cu'q'i c'ng'g'cu'v'quw'f'cu"                                                                                                                              |
| h'vki c'r qt'ecrqt"           | ugt'k'q"                                                                | , 'v'cpur k'cek'p'r gucf c"<br>, 'o ct'gq"<br>, 'p'a wugcu"<br>, 'f'gd'k'kf cf {"h'vki c"<br>, 'l'wo dkf q'gp'iqu'q'f'qu"<br>, 'f'q'rt'gu'f'g'ec'd'gl c'l'p'v'g'puqu"                                                        | , 'f'g'uecpuct'gp'ic'uqo dtc'q'c'k'g"<br>eqpf k'ek'p'cf q"<br>, 'vqo ct'o w'ej c'ci w'c"                                                                                                                                                               |
| k'puq'rc'ek'p"                | ugxgtq"<br>*eqpf w'ek'a c'ic'ic'<br>o w'gt'v'g'uk'p'q'ug"<br>v'c'v'c'+" | , 'r'k'gn't'q'lc.'ug'ec.'o c'p'ej cf c"<br>, 'v'cn'x'gl 'eqpf w'ew'c'ng'gt'cf c"<br>, 'vgo r g'tcw'wt'g'eqtr q't'cn'<br>g'zeguk'xc'*vgo r g'tcw'wt'g'f'g'g'g'g'g'<br>egp't'q'f'g'ew'gtr q'c'tt'k'dc'f'g'326"<br>i t'cf qu'H" | , 'qd'v'g'p'gt'v'g'p'ek'p'o 2 f'k'ec"<br>k'po gf k'ew.'v'cp'r t'q'p'v'q'eqo q'ug'c"<br>r qu'k'd'ng"<br>, 'g'p'ht'k'ct'w'ucp'f'q'ew'c'ns w'k'gt'o gf k'q"<br>r qu'k'd'ng'o'uqo dtc.'c'k'k'k'<br>eqpf k'ek'p'cf q.'s w'k'ct'q'o q'lc't'ic'ic'<br>t'qr c" |

"

Ncu'g'p'htgo gf cf'r qt'ecrqt'uqp'eqo r ng'vco g'p'v'g'r t'g'x'g'p'k'd'ng'u0'

ÉA Gxkct'vqo ct'dgdkf cu'creqj »n'ec'u'ic'p'q'ej g'cp'v'gu'f'g'wp'f'f'f'g'ecrqt'r q'ts w'g'ng'f'gl'ct'a'c'ni q'f'guj k'f'c'w'f'q"  
{ 'o a u'uw'uegr v'k'd'ng'c'g'p'htgo gf cf'r qt'ecrqt0'

ÉA F qto k'uw'ht'ek'p'v'g'{"eqo gt'd'k'gp'0'

ÉA Vqo ct'f'g'uecp'qu'gp'ic'uqo dtc'0'

ÉA Vqo ct'o w'ej c'ci w'c'f'w'c'p'v'g'v'q'f'q'gn'f'f'f'p'q'gur gt'ct'j'cuw'ug'p'k't'ug'f'0'

ÉA Gxkct'ech'g'p'c'0'

ÉA Wuct'c'd'ep'k'equ'eg'tec'f'gn'a t'gc'f'g'v'cd'cl'q.'uk'iqu'j' c'f'0'

ÉA N'rg'x'ct'uk'go r t'g'w'p'c'eco k'uc.'f'g'r t'gh'gt'g'pek'f'g'o c'v'gt'k'cn'f'g'c'ni q'f'»p'0'

ÉA G'p'v'ct'c'cn'ecrqt'i t'cf w'cm g'p'v'g'0'U'g'v'ct'f'c'eqo q'f'qu'ugo c'p'cu'r c'tc'cequ'w'o dt'ct'ug'c'v'p'co d'k'g'p'v'g'ec'nt'qu'q'0'



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## *Rc{cucf cu''*

☞ **¿Cuándo Ud. era nuevo en la industria de techos ....**

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ÉÁ r tqdcdrgo gpvg"qo cdc"r tgecwekqpgu"cf lekqpcrgu."

"

ÉÁ rc"kf gc"uwdkt"guercgtcu."tcdclct"gp"cnwtcu."{ "guvct"egtec"f g"culcncq"ecrlgpgv"r tqdcdrgo gpvg"gtcp" uwlekgpgvu"r etc"r qpgrng"wp"r qeq"pgtxkquq."{ "

"

ÉÁ Wf 0pwpec"j wldgtc"uq° cf q"uls wkgtc"eqp"j cegt"r c{ cucf cu'pk'dtqo cu'r gucf cu'gp"gn'tcdclq0'

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☞ **¿Sin embargo, al irse sintiendo más cómodo con su ambiente de trabajo ...**

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É' Wf 0go r gl »"c"eqp qegt"o glqt"cuwu"eqo r c° gtqu"fg"tcdclq."

"

É' vco dk p"ug"r wuq"o gpqu'pgtxkquq"eqp"mqu"r grki tqu"fg"uw"qhlekq."{ "

"

É' ug"ugpv"o "u"e»o qehq"eqp"lwi ct"eqp"gn'tguvq"fg"rc"ewcf tknc0'

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☞ **¿Entre más cómodo se sienta ...**

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ÉÁ o c{ qt"gu"rc"vgpvcle»p"fg"j cegt"dtqo cu'r gucf cu'q"fg"cuwvctng"cn' wkp0'

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☞ **Las pavasadas son peligrosas y pueden conducir a lesiones y hasta la muerte.**

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ÉÁ P q"fgdgp"j cegtug"gp"wp"vgej q"rcu"cevxkf cf gu'eqo q"ej qttget"cn' wkgp"eqp"wp"o cpi wgtc."ci kct"wp" guercgtc."q"cegtectug"uki knquco gpvg"cn' wkp0'Gucv"equcu"r wgf gp"eqpf wekt"cn'tgudcnpgu."tqr gl qpqu0' r grngu"eqp"r w° qu."q"m"r gqt."arc"o wgtvg#"

"

"

[ qwt"go r m{ gt"y cpw"q"q"v"j cxg"hw"cpf "gplq{ "{ qwt"lqd."dw"j qtugr rc{ "ecppqv"cpf"y kn'pqv'dg"qngtcvgf 0'

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*Eqpuglqu'f g'Gp u g p c o k g p v q'f g'Rc { c u c f c u' "*

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ÉÁ Gzr rlect'ic'r qn'flec'f g'ic'eqo r c°'c'f' 'icu'r tqegf ko kgpvqu'f g'f kuek r kpc'tgur gevq'f g'r c { cucf cu0'

ÉÁ Rgf k'c'icu'go r rncf qu'glgo r qu'tgcrgu'f g'r c { cucf cu0'

ÉÁ Rgto kkt'c'icu'vtedclcf qtgu'eqo r ctvt'j kvqtiku'f g'ej kvgu'q'lwgi qu's wg'tguvntqp'gp'igukppgu'gp" eqo r c° gtqu'f g'vtedclq0'

ÉÁ S wg'gmqu'r kgpugp'gp'glgo r qu'hwgtc'f gni'vtedclq'uk'pcf kg'vkgpg'j kvqtiku'f g'vgej qu.'r ctc's wg'cegr vgp'gni' eqpegr vq'f g's wg'icu'r c { cucf cu'pq'uqp'ukgo r tg'lwgi qu'kpqegpvgu0'

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Vgo cu'Cf k kqpcrgu"J cdmf qu< "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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## Ugi wt kf cf 'Hwgt c'f gnVt cdclq'''

O wej cu'f g'rcu'tgi rcu'f g'ugi wt kf cf 's wg'Wf 0'wug'gp'gn'vtdclq'f gdgp'qdugt xctug'gp'rc'ecuc'co dk² p0'

☞ **Á** asegure que use el manejo defensivo en su vehículo personal, no sólo cuando está en el trabajo.

ÉÁ Oª u'f g'62.222'r gtuqpcu'o wgtgp'ecf c'c° q'gp'rcu'ecttgvtcu'f g'rc'pcek»p0'

ÉÁ Nrgxg'ukgo r tg'uw'ekpwt»p'f g'ugi wt kf cf. "cwp'gp'xklgu'eqt vqu0'

ÉÁ P q'uki c'wp'ecttq'r qt'f gvtª u'f guf g'o wx'egtec0'

ÉÁ Rgto ¶icug'o wej q'vgo r q'r ctc'ngi ct'c'uw'f gukppq'r ctc's wg'pq'pgegukg'uqdtgr cuct'rc'xgnqekf cf 0'

ÉÁ P wpec'o cpglg'dqttcej q0'Wug'wp'ej qhgt'f guki pcf q'q'ncº g'c'wp'vczk0'

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☞ **Á** Al usar escaleras de mano en casa, debe seguir las mismas reglas de seguridad que usa en el trabajo.

ÉÁ Cugi wt g's wg'rc'gucrgtc'gu² "co cttcf c'"{'s wg'ug'gz vkpfc'v'gu'r lgu'cttkdc'f g'nq'cnq'f gn'vgej q0'

ÉÁ P q'qnkkf g'f g'hkct'rc'dcug'f g'rc'gucrgtc'c'wp'r kg'f g'f kncpekc'f g'rc'r ctgf'r ctc'ecf c'ewcvtq'r lgu'f g' cttwtc0'

ÉÁ Ugo r tg'eqmgs wg'rcu'r lgu'f g'ugi wt kf cf "gp'vgttc'hkto g0'

ÉÁ Rctc'rcu'gucrgtcu'dclcu. "cugs wt g's wg'rcu'r ketpcu'ug'gz vkpfc'p'eqo r nrgco gpvg'"{'s wg'rcu'ugr qtvgu'gu² p" gp'uw'Lwi ct'eqp'hkto gl c.'"{'cew² tf gug'f g'pq'r ctct'gp'gn'gucen»p'oª u'cnmq0'

ÉÁ Kpur geekqpg'uwu'gucrgtcu'r ctc'f tlgvcu'w'qvtqu'f ghgevqu0'

ÉÁ Ugo r tg'vgpi c'ewkf cf q'cf kekppcn'egtec'f g'ecdngu'gr extlequ."gur gekmo gpvg'eqp'rcu'gucrgtcu" o gv² rlecu0'

"

☞ **Á** El Equipo de Protección Personal es importante siempre que haga proyectos en casa.

ÉÁ Nrgxg'cpvgqlqu'f g'ugi wt kf cf "cn'wuct'j gttco kgpvcu'f g'r qvgpekc0'

ÉÁ Nqu'i wcpvgu.'tqr c.'"{' cr cvqu'f gdgp'ugt'cf gewcf qu'c'uw'vtdclq0'

ÉÁ Uk'Wf 0'vtdclc'gp'wpª tgc'f qpf g'j c{'r qf c'f gª tdqngu'q'ewcns vkg't'qvtq'vtdclw0'cttkdc'f g'rc'ecdgl c0' gpvpegu'gu'cr tqr kcf q'wp'ecueq'f g'ugi wt kf cf 0'

ÉÁ Gu'wpc'dwgp'kf gc'ngxct'cpvgqlqu'f g'ugi wt kf cf "cwp'ewcpf q'eqtvc'gnle² ur gf.'r ctc'r tqvgi gt'rcu'qlqu'f g' r kgf tcu'xqmf qtcu0'

"

J c{'ecuk'vcpqu'r gñi tqu'gp'rc'ecuc'eqo q'gp'gn'vtdclq0'Gu'lo r qtvcpg'tgeqpqegtñu'r ctc's wg'r wgf c'r tqvgi gtug" c'u¶'o luo q"{'c'uw'hcº kkc0'Cugi wt g's wg'rc'rcu'kputweekpgu'{'rcu'tgeqo gpf cekppgu'f gn'hdtkccpvg'co gu'f g" eqo gp| ct'ewcns vkg't'r tq{ gevq'pwgxq0'

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*Eqpuglqu'f g'Gpvt gpc o kgpw'f g'Ugi wtkf cf 'Hwgt c'f gn'Vtcdclq'*

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É Rtgi wpvct's w² "encugu'f g'gs wkr q'rc"i gpvg'vkgpg"gp"ecuc."{ 's w² "vkr q'f g'r tgecwelkpgu"go r ngcp"vff leco gpvg0'  
É Cplo ct"rc"i kuewukp"i f g'rcu"encugu'f g'cvclqu's wg"rcu'r gtuppcu'qo cp"gp"ecuc."s wg"pq'ugt"p"vqrgtcf qu"gp"gn'  
vcdclq0'  
É Rtgi wpvct's w² "f cug'f g'ceekf gpvgu"gp"ecuc"rcu'r gtuppcu'j cp"vwhk q0'  
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\*\*\*\*\*Hgej c'\*\*\*\*\*Hko c'f gn's wg'Rt gupvc"

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Vgo cu'Cf lekqpcrgu"J cdrf qu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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## Ugi wtlf cf 'Eqp 'Ej crc 'fg'O gwn'

Nc'ej cr c'f g'o gwn'wucf c'r tlpkr cm gpvg'gp'iqu'vej qu'r ctc'icu'ecpkr'u. 'iqu'wdqu'f g'dclcf c'f g'ci wcu."{ 'iqu' vej qu'f g'xcr qt. 'hg'gzi qpqp'c'xctkqu'r grki tqu"Àplequ0'

☞ **Áud. debe estar enterado siempre de los bordes cortantes de la chapa de metal.**

ÉÁ Wug'r tgecwep"gzvgo c"{ 'ulgo r tg'mxg'i wcpvgu'cn'o cpglct'ej cr c'f g'o gwn'

ÉÁ O cpvgpi c'iqu'dqtf gu'eqtvcpgu'x'icu'gus wpcu'iglu'f g'a tgcuf g'r gcwpgu0'

ÉÁ Nqu'dqtf gu'eqtvcf qu'c'o cpq'uqp"gur geckm gpvg'eqtvcpgu'r ctc'tgf wek"guv'encug'f g'r grki tq."wug'wpc" rko c'q'o wgr'r ctc'tgf wek'iqu'pwf qu."q'dkpg'f qdng'gn'dqtf g0'

☞ **Algunas clases de chapa de metal están cubiertas con plomo, lo cual presenta otra preocupación.**

ÉÁ Grir mo q'gu'wp'xgpgp'q's wg.'f gur w'uf g'ic'gzi qulek'p'gzegukc.'r wgf g'cm cegpctug'gp'uw'ewtr q0'

ÉÁ Ukir'gzi qulek'p'cn'r mo q'gu'wpc'r tggewr cek'p'gp'uw'wmi ct'f g'vcdclq.'cugi wtg's wg'xqo g'icu' r tgecwepqu'f gdlf cu"{ 's wg'ug'hco kktleg'eqp'icu'r qm'lecu'x'r tqegf lo kpvqu'f g'ic'eqo r c'o 'c'r ctc'gr' r mo q0'

ÉÁ Ugo r tg'wg'o cpglg'r tqf wequ'f g'r mo q.'mxg'i wcpvgu'f 'r'xgug'o w' 'dkpg'cpvqu'f g'eqo gt."dgdgt."q' hwo ct'r qts wg'gu'lf ekilpi gtl'r qt'ceekf gpvg'gn'r mo q's wg'r wgf c'guvct'gp'uwu'o cpqu0'

ÉÁ P q'xqo g'f guecpqu'pk'eqo c'gp'a tgcuf qpf g'j c' 'r mo q0'

☞ **Al soldar, hay precauciones de seguridad adicionales.**

ÉÁ F gdg'mxctug'gn'gs wkr q'f g'r tqveek'p'r gtuqpcn'RRG+ 'kpenw' gpf q'ic'r tqveek'p'qewret.'i wcpvgu'f " eco kicu'f g'o cpi c'rti c0'

ÉÁ Vgpi c'wp'gzvqvt'egtec0'

ÉÁ Ugo r tg'vcg'f g'vcdclct'xkpgvq'cttkdc'q'wuct'wp'cdcpleq'r ctc'f kkr ct'iqu'xcr qtgu'f g'r mo q'<iqu'ewcrgu' ugt'a p'i gpgtcf qu'cn'ecrgpvt'gn'o cvgtkn'r ctc'pq'vgpgt's wg'lpj crtrqu0'

☞ **Al usar herramientas de máquina de potencia, hay que usar escudos para las máquinas.**

ÉÁ Cugi wtg's wg'iqu'guewf qu'f g'o 'a s wpcu'gu'p'gp'qtf v'ulgo r tg's wg'g'j gttco kpvqu'f g'o 'a s wpc'f g' r qvpekc'eqo q'uqp'wpc'f qdrf qtc'f g'ej cr cu'q'wpc'vlgte'o ge'a plec0'

Nc'ej cr c'f g'o gwn'f 'icu'o 'a s wpcu's wg'ug' "wucp'r ctc'hqto ctn'r tggpvcv'r grki tqu"Àple»u's wg'pq'ug'r tggpvcv' pqtto cm gpvg'gp'qvtcu'cr rceekpqu'f g'vej qu0aVqo g'vgo r q'cf lekqpcn'vcdclct'eqp'ic'ej cr c'f g'o gwn'f 'eqp' gn'gs wkr q'f g'hppct'ic'ej cr c'f g'o gwn'r ctc's wg'W0pq'tguwng'f qdrf q#'



***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Ugi wtkf cf 'f g'Ej crc 'f g'O gwn''***  
"

ÉÁ Vgpgt'cni wpcu'r kgl cu'f g'ej cr c'f g'o gwnf kur qpkdiru'r ctc'f go quwtct'iq'eqtwpvg's wg'gu."gur gekm gpg'eqp"  
nu'dqtf gu'eqtvcf qu'c'o cpq0'

ÉÁ Rcug'wp'vtr q'dnpeq'uqdtg'wpc'ej cr c'f g'o gwnf gxgukf c'f g'r mo q'r ctc'f go quwtct'iq'h'ekl's wg'gu'ucect'gn'  
r mo q'f g'w'ej cr c'f g'o gwnf{ 'r qpgtiq'gp'w'u'o cpqu'q'w'tqr c0'

ÉÁ J cegt'w'u'r tgi wpcu'uki wkpvgu'<

ÉÁ äRqt's w²'gu'lo r qtwcpvg'vpgt'guwf qu'f g'o ^ s wpcuA'

ÉÁ äE»o q'gu's wg'gnr mo q'r wgf g'gpwtct'c'uw'ewgtr qA'

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Hgej c'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaHko c'f gn's wg'Rtgugpw"

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Vgo cu'Cf lekpcrgu"J cdmf qu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Wuq'f g'Uqrxgp vgu'

- ☞ **Los solventes se usan comunmente en el techo como un agente de limpieza para herramientas y equipo, y para los traslajos de una sola capa antes de juntarlos con pegamento.**

ÉÁ Nqu'r grki tqu'r qukdngu'uq'p'kpegpf kqu.'kpi c'ceke'p'f g'xcr qtgu.'kpkceke'p'f g'rc'r'kgn''f'r grki tqu'  
co dlepxcrgu's wg'r wgf cp'tguw'ct'f g'uw'grko kpeke'p'pq'eqttegcw0'  
"

- ☞ **La mayor parte de los solventes inflamables tiene puntos de inflamación muy bajos y liberan con facilidad los vapores.**

ÉÁ P wpec'hão g'pk'vgpi c'mco cu'cdlgtvcu'egtec'f g'uqrxgpvgu0'

ÉÁ I wctf g'hqu'uqrxgpvgu'gp'rc'cu'f g'ugi wtkf cf'eqp'g'vls wgc0'Ncu'rc'cu'f g'ugi wtkf cf'eqp'f g'o gvcn''f''  
r tqxlu/vqu'f g'o cmru'f g'co qt'ki wct'ej kur cu'f'vcr cu'f g'o wgm'cr tgcfcu0'

ÉÁ Uk'wp'uqrxgpvg'ug'f gttco c.'hko r kgr'rc'uwekcf cf'ukp'f go qtc''f'grko kpg'hqu'o cvgtkrgu'f g'hko r kgl c'gp'wp''  
gpxcug'ugi wtk'c'r twgdc'f g'hugi q0'

ÉÁ P q'r gto kc's wg'hqu'xcr qtgu'ug'cewo wgp'gp'p'kpi Àp'gur cekq'f qpf g'r wgf c'j cdgt'mco cu'cdlgtvcu'q''  
ej kur cu.'gur gekco gpvg'hqu'xcr qtgu's wg'uq'p'o a' u'r gucf qu's wg'gr'cktg''f's wg'ug's wgf ct'a p'gp'rc''  
uwr gthekg'f gr'vgej q'q'gp'q'vcu'a tgcuf g'uwr gthekg0'  
"

- ☞ **Consulté con su supervisor antes de usar un solvente en un espacio confinado.**

ÉÁ Uk'WF 0'wuc'wp'uqrxgpvg'gp'wp'gur cekq'eqphkpcf q.'cugi wtk'g's wg'j c'c'xgpxkceke'p'cf gewcf c'q's wg'wug''  
r tqvgeek'p'tgur kcvqtkc0'  
"

- ☞ **Asegúrese de proteger su piel de los efectos de los solventes.**

ÉÁ Nc'o c'qt'r ctvg'f g'hqu'uqrxgpvgu'f g'ut wtk'a p'hqu'cegkcu'pcwtcrgu'f g'uw'r kgr'ecwucpf q's wg'ug't gugs wg0'

ÉÁ Rtqvglc'rcu'o cpqu'eqp'i wcpvgu'f g'j wrg0'

ÉÁ P q'wug'uqrxgpvgu'r ctc'hko r kctug'rcu'o cpqu.'pk'p'kpi wpc'q'vc'r ctvg'f gr'ewgtr q0'  
"

- ☞ **Lea la Hoja de Datos de Seguridad de Materiales (MSDS) antes de usar un solvente desconocido.**

ÉÁ Nc'O UF U'r tqxggt'a 'vqf c'rc'kphqto ceke'p'tgrgxcpg'cegtec'f gr'eqo r wguq's w'p leq.'kpenw'f gpf q''  
kphqttpceke'p'eqo q'rc'uki wkgpvg<'

ÉÁ gr'r wvq'f g'kphmco ceke'p.'f'uwu'h'p kgu'f g'g'zr rquk'p'uw'r g'ktqt'g'kphgtkqt.'

ÉÁ ewcns wkg't'r grki tq'f g'ucnw'f.'

ÉÁ gr'RRG'tgs wgtkf q.'

ÉÁ o<sup>2</sup> wqf qu'f g'hko r kgl c''f'tgs wkukqu'f g'grko kpeke'p.'f''

ÉÁ tguwncf qu'r qukdngu'f g'g'zr quleke'p'f'tgceekqpgu'f g'r tko gtqu'cwzkrku.'g'pvtg'q'vcu'equcu0'

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ÉÁ Gpug° ct°cní wpcu°f g°ncu°o cuetkncu°s wg°ncu°go r ngcf qu°cn°xgl° pge guksp°mgxct°cn°wcdclct°eqp°uqrx gpwcu°

ÉÁ J cegt"ncu'r tgi wpcu"uki wkpvgu<

ÉÁ äRqt's w² "pq'ug'f gdg'ñko r kct'ñcu'o cpqu"eqp'uqrxgpvguA"

ÉÁ äGu'r qukdng"kpj cmt"uwhekpvg"uqnxpvg"eqo q'r ctc"pghcto ctug."cwp"ewcpf q"gu<sup>a</sup> "chwgtcA"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## O cpglct 't 'h 'F ghgpukxc ''

- ☞ **Manejar a la defensiva es importante para la protección tanto de los compañeros de trabajo como del público en general.**

ÉÁ Gu'o glqt "qo ct "wpc" cekwf "f ghgpukxc "cn'lo cpglct0Gu? "wp"r cuq"o " u'cf grcpvg" f g'mu'qtqu'ej qhgtgu"gp" gn'eco kpq0'

- ☞ **Manténgase alerta siempre. Esto es especialmente importante de regreso al patio o a casa después de un día largo en el trabajo.**

ÉÁ P q"ug"cegts wg" c"mu'ej qhgtgu's wg"o cpglgp"r grki tquco gpvg0'

ÉÁ P q"uli c"o wx" f g'egtec"r qt "f gt<sup>a</sup> u."pk'r cuq"rc" xgmekf cf "gi cn0'

- ☞ **Una parte de manejar a la defensiva es el tomar en consideración las condiciones de manejar.**

ÉÁ Ncu'eqpf lekqpgu"t gudcnqucu"q"j grcf cu'tgs wgt gp" f kncepeku"o c { qtgu'r ctc" f gvpgtug. "cu" s wg" cwo gpvg"rc" f kncepek" gpvtg"uw"xgj "fwrq" { "gn'xgj "fwrq" s wg"vkgp"r qt "f grcpvg0'

ÉÁ Ncu'eqpf lekqpgu"erko cvqpi lecu"lpergo gpvgu"etgcp"ecqu"cn'tgo qrect"tgo qns wgu"q"ecrf gtcu0F g'pwgxq." cwo gpvg"rcu" f kncepeku" f gt<sup>a</sup> u" f g'qtqu"xgj "fwrq" { "dclg"rc" xgmekf cf 0'

ÉÁ O cpglct" f g" f "f"eqp"rc"hw" f gn'luqn"vco dl2 p'r wgf g'etgct"r tqdngo cu'r ctc"cn' wpqu'ej qhgtgu"Cug/i wtg's wg" uw'r ctdctkucu"gu? "ko r kq. " { "ngxg"ngpvgu"quewtqu0'

- ☞ **Su vehículo personal y su vehículo de la compañía probablemente reaccionarán de manera distinta.**

ÉÁ Nq"o " u'r tpdcdng"gu"s wg"Wf 0mgxc"ecti cu"o " u'r gucf cu"s wg"rcu"s wg"ngxct" f"gp"uw"cwq"r gtuqpcr0Nqu" xgj "fwrq"u'eqp"ecti cu"o " u'r gucf cu'tgs wgt gp" f kncepeku"o " u'rcu" cu'r ctc" f gvpgtug0'

ÉÁ Cwo gpvg"uw" f kncepek" f g"r ctcug"cwpo " u'uk'tgo qrec"wpce"ecrf gtc. "ngpc"q"xce"fc0'

ÉÁ Ncu'eco kpgvcu"\$r kmwv"\$r wgf gp"ugpvktug"hi gtcu" f g"mu'gzvtgo qu."gur gekm gpvg"xce"cu0Rtgr" t gug" r ctc"eqo r gpuct"rc"lpo qxkkl cel>p" f g'rcu"t wgf cu" f g'cv<sup>a</sup> u" { "mu'r cvkpc| qu."gur gekm gpvg"ewcpf q"rcu" eqpf lekqpgu" f gn'eco kpq"pq"uqp"kf gcrgu."eqo q"eqp"mwkc."pkxg. " { "j kmq0'

- ☞ **Manejar a la defensiva depentje derestado mental del chofer.**

ÉÁ Cugi wtg's wg"Wf 0vgpi c" uwhekpvg"uwg° q " { "s wg"i qeg" f g"dwgpc"ucmf"o gpvcr" { "f"ulec0'

ÉÁ P q"o cpglg"uk"gu? "dclq"gn'lpnmq" f g"creqj qn'q" f tqi cu0Ncu" f tqi cu"dclq"tgegvc"o 2 f lec"q"rcu"s wg"ug" eqo r tcp"gp"hcto cekc"ukp"tgegvc"vco dl2 p'r wgf gp"r tqxqect"uwg° q."cu" s wg"vgpi c"ewkf cf q0'

ÉÁ Gxkg"mu'ej qhgtgu"ci tguqxqu0O cpgpi c"uw'e>ngtc"dclq"eqpvtqn"cwpe"ewcpf q"ug"ukpgvg"eqp"rc"tc| >p"0'

ÉÁ Rtgr<sup>a</sup> t gug" f g"egf gt"gn'f gtgej q" f g"r cuq"cwpe"uk"gn'qtq"ej qhgt"gu? "gs wxqecf q0'



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*Eqpuglqu'f g'Gpvt gpc o kgpw'f g'O cpglct 'c 'lc 'F ghgpukxc "*

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É Cplo ct "c"qu"go r ngcf qu"ç"j cdrt "f g"ni wpqu"ceekf gpv'u's wg"j cp "vgpf kf q. "kpenw{ gpf q "qu"lwh kf qu"gp"gni' vcdclq0'

É J cdrt "f g'e»o q "guqu"ceekf gpv'u'ug"j vdkgtcp"r qf kf q "gxkct0'

É J cegt "c"lc"ewcf tkrc"rcu'r tgi wpcu'uki wlgpvu<"

É äEw³ ngu'uqp"ni wpcu'ugº crgu"f gn'o cpglq"ci tgukxq"gzj kdkf q"r qt "qvtqu'ej qhgt guA"

É äEw³ ngu'uqp"ni wpcu'qvtcu"eqpf lekqpgu's wg'o gt gegp"rc"pgegukf cf "f g"o cpglct "o "a u'rgpvqA"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Elpwat qpgu'f g'Ugi wtkf cf''

äCni wpc'xgl "Wf 0j c'wucf q'cni wpqu'f g'iqu'cti wo gpvqu'uki wkgpvguA"

☞ **Á**llevo mi cinturón en viajes largos, pero es mucha molestia en viajes codos.

ÉÁ Nc'o c{qt'r ctvg'f g'iqu'ej qs wgu'f g'xgj ¶ewqu'o qvqt k cf qu'qewtgp" c'xgmekf cf gu'f g'47" c'62" o kmcu'  
rqt"j qtc0'

ÉÁ Nc'o c{qt'¶"f g'iqu'ceekf gpvgu'wpgp"nwi ct "f gpxq" f g'47" o kmcu'f g'rc"ecuc" w'qhekp c'f gñej qhgt0'  
"

☞ **Á**oí decir que es mejor que una persona sea lanzada fuera de su vehículo en un Choque serio.

ÉÁ Cr ctvg'f g'rc'r wtc'mqewt c'f g'f gekf k'ts wg'ugt ¶"o glqt'ugt "ecvcr wncf q'c'vtcx² u""  
f gñr ctdtkuc'f g'wp'xgj ¶ewm c'82" o kmcu'r qt'j qtc. "iqu'ej qhgt gu's wg"  
\$ucrgp\$'f g'uwu'xgj ¶ewqu'f wcpvg'wp'ej qs wg'wpgp "ewctq" xgegu'o "a u"  
r tqdcdrkf cf gu'f g'o qtk. "wuwcm gpvg'f gdlf q'c's wg'gn'xgj ¶ewm"  
twgf c"gpko c'f g'gmqu0'

"

"

☞ **Á**es incómodo.

ÉÁ Wf 0ug"cequwo dtctª. "{ 'cñtcvq'pk'ug'f ctª "ewgpvc'f g's wg'guv² "cñ¶0'

ÉÁ Nqu'j wguqu'htcewtcf qu.'r ctª ruku. "tceek»p. "{ 'ektw¶"uqp"o wej q"o "a u'lpe»o qf qu0"

"

☞ **Á**un cinturón de seguridad es una manera rápida, fácil, y barata de preservar su vida..

ÉÁ 36.222'r gtuppcu'o wgtgp"ecf c"º q'f gdlf q'c's wg'guwxkgtqp"gp"ej qs wgu'f g'xgj ¶ewqu'o qvqt k cf qu. "{  
f gekf kgtqp"pq"wucl'uwu'elpwtqpgu'f g'ugi wtkf cf 0'

"

Rqpgtug"gn'elpwt»p"gu'r tqdcdrgo gpvg'rc'hqto )c"o "a u'lf eki{ "dctvc'f g'r tqvgeek»p"s wg'vgpi c0Rtqdcdrgo gpvg'j c"  
q¶f q'j kxqtkcu'f g'i gpvg's wg'o wtk»gp"uwu'ecttqu'f gdlf q'c's wg'ngxcdcp"gn'elpwt»p" "{ 'cñ'xgl "Wf 0wucdc"guvq"  
eqo q'gzewuc'r ctc'pq"wuclm. "r gtq"guvqu'ecuqu'uqp"cp'tctqu's wg'pq"o gtgegp"o gpek»p00 kgu'o "a u'r gtuppcu"  
o wgtgp"r qts wg'pq"iqu'ngxcdcp0ÑNqu'elpwtqpgu'f g'ugi wtkf cf "u¶ucikcp"xkf cu##"

"



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*Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Ekpwt qp gu'f g'Ugi wtkf cf'''*

..

É J cegt'hcu'rtgi wpcu'tki wkpvgu<

" É""äE w pqu'f g'Wf u0ngxcp'ekpwtqp gu'f g'ugi wtkf cf ÄäRqt's w² 'u¶'q'pqA'

" É""äCñ wkp'j c'guwcf q'gp'wpc'ukwcek»p'gp'f qpf g'wp'ekpwt»p'c{ wf »'c'gxkct'wpc'rguk»p.'q'ucrk»'wpc'xkf cA'

" É""äS wk² p'j c'tgekdkf q'wpc'kphceek»p'r qt'pq'ngxct'uw'ekpwt»p'f g'ugi wtkf cf A'

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Ecti ct'Eco kppgu'

J cxg" { qw'gxgt'wugf'cp { 'qh'j g'hqmy kpi 'cti wo gpwA"

☞ **Á** Todas las compañías usan camiones para llevar los materiales de techos a los sitios de trabajo. Los camiones existen en una variedad de tamaños y pueden cargarse a mano o usando ayuda mecánica, como un montacargas.

☞ **Á** La Administración de Seguridad y Salud en el Trabajo (OSHA) requiere que los operadores de montacargas reciban entrenamiento."

ÉÁ Cf go " u'f g'gptgpcp kppvq. "QUJ C'tgs wktg's wg'gn'o qpvecti cu'vgpi c'r tqveekp'cttkdc'f g're'ecdgl c. " { "crcto cu'f g'o ctej c'cv'a u. " { "s wg'hqu'ekpwtqpgu'f g'ugi wtkf cf 'ug'wugp'uk'gn'o qpvecti cu'hqu'kpgp0

ÉÁ Cn'xkclct'eqp'wpc'ecti c. "o cp'p pi cr'cp'egtec'f gn'wgn'eqo q'ugc'r qukdng0UK're'ecti c'guv'a "o w { "cnq. " r wgf g'ecwuct'wpc'xqrecf wtc'f gn'p-qpvecti cu0

ÉÁ O cpvgpi c'cn'o "pko q'rc'xgmkf cf "f gn'o qpvecti cu'cn'ngxct'wpc'ecti c0

ÉÁ Cugi wtg's wg'gn'o qpvecti cu'guv'a "ecnkkecf q'r ctc'rcu'ecti cu's wg'ngxcpvct'a 0Gn'udtgecti ct'ecwuct'a "wpc" xqrecf wtc'f gn'o qpvecti cu0

ÉÁ P wpec'ngxcpvg'r gtuqpcu'gp'rcu'j qts wkruc'pkr gto kc's wg'ug's wgf gp'cn'f'ewcpf q'gn'o qpvecti cu'guv'a "gp" o qxko kppvq0

☞ **Á** Al cargar el camión a mano, asegure que use las técnicas de levantar correctas

ÉÁ Gunkg'hqu'o Àewqu'cpvgu'r ctc'r tgr ctctnqu0

ÉÁ Ce'2 ts wug'c'rc'ecti c. "ngxcpvg'eqp'rcu'r ktpcu. "o cpvgpi c'rc'ewxc'pcwtcn'f g'rc'gur crf c'kphgtkqt. " { "pq" wgtcg'rc'gur crf c0Rkf c'c { wf c'ewcpf q'rc'ecti c'gu'o w { "r gucf c'q'dwnqu'c0

ÉÁ Ewcpf q'rcu'ecti cu'pgegukcp'ngxctug'c'vtx'2 u'f g'rci cu'f kucpeku. "wug'cr ctcvqu'o ge'a plequ'eqo q" ecttkqu'q'f kcdrcu0

ÉÁ UKcttcutc'cni q'hwgc'f g'wp'eco k>p. "tgewtgf g'f »pf g'guv'a "gn'dqtf g' { "r tgr'a tgu'g'r ctc'tgekdk'rc'ecti c0 "

☞ **Á** Antes de irse del patio, asegure que los choferes y los responsables de cargar hayan cumplido con los requisitos del Departamento de Transporte (DOT).

ÉÁ Ncu'ecti cu'f gdgp'cugi wtctug'r ctc'gxkct'o qxko kppvqu'q'f gur rc| co kppvq0

ÉÁ F gur w'2 u'f g'47'o krcu'f g'xkclg. "rc'ecti c'f gdg'tgxkctug'r ctc'cugi wtct's wg'guv'a "ugi wtc'vqf cx'f c"

ÉÁ Ncu'dqvgm'cu'f g'r tqr cpq'f gdgp'cugi wtctug'gp'r qulek'p'xgt'kcn'eqp'rc'x'a kxwrc'f g'ucrkf c'vcr cf c0

ÉÁ Ug'pgegukcp'r cpectcu'r ctc'o "a u'f g'3222'rkdtcu'f g'o cvgtkngu'r gni tququ. " { "gn'ej qhgt'f gdgp'vgpgt'wpc" nlegpek'f g'o cpglct'eqo gtekn'EF N+0

ÉÁ P q'qrxkf g'f g'ngpct'gn'kphqto g'eqv'f kcpq'f g'kpur geek'p'f g'xgi 'fwm0

ÉÁ Cugi wtg's wg'hqu'r cr gngu'f g'vcpur qtvg'guv'a p'eqo r ngvf qu'eqttgevc gpvg0

"



***Eqpuglqu'f g'Gpwt gpc o kgpw'f g'Ecti ct'Ectpkppgu''***

É' Uk'j c{ "wp"eco k»p"ecti cf q"gp"gn'uklkq" f g"tcdclq0'Àugrq"r ctc"gzr nlect"e»o q'ug"ecti »" { "e»o q'ug"cugi wt»"uw"  
eqpvgpkf q0'  
É' Gpug° ct "c"nqu'go r rncf qu" f »pf g"ug" f gdgp"eqnject"nru"r cpectvcu"gp"nqu'eco kppgu0'  
É' J cegt"nru"r tgi wpxcu"uki wkgpvgu<"  
" É""Wpc'xgl "gp"gn'eco kppq."æw³ pf q"gn'ej qhgt"guw³ "qdri cf q"r qt"r tko gtc'xgl "c"r ctctug" { "c"t gxkuct"n"ecti cA"  
" É""àRqt"s w² "ug" f gdg"vgpgt"ecti cu"cn'pkxgrlo "a u'dclq"r qukdrg"gp"nqu"o qpvecti cu"gp"o qxko kgpwA"  
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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## O cpvgplo lgpvq'f g'Xgj ¶wruqu'

☞ **Ávale la pena ser proactivo, en lugar de reactivo, con el mantenimiento de vehículos.**

ÉÁ P wguuq'gs wkr q'f wtctc'o cu'vgo r q0'

ÉÁ Nqu'xgj ¶wruqu'f g'pwguuq'eqo r c° kc'ugt° p'o ° u'eqphkcdgu0'

ÉÁ Grio cpvgplo lgpvq'ulo r r°r wgf g'j cegtug'gp'griuklk'f g'vcdclq0'

"

☞ **Áfamiliarícese con. ei programa de 'mantenimiento recomendado del manual del operador para que Ud. pueda llamar la atención del mecánico cuando llega la hora de hacer una inspección a fondo.**

☞ **ÁHay algunos pasos simples que Ud; pueda tomar antes de arrancar el vehículo cada día antes de arrancarlo para mantenerlo en excelentes condiciones.**

ÉÁ Ucect'f grieco k°p'dcuñc'w'qtqu'qdlgwu."eqo q'vcr qu.'j gttco kpxcu."{ 'eqr cu'f g'ech?0'

ÉÁ Gzco kpg'rc'eqpf kek°p'f g'qu'ekpwtqpgu'f g'ugi vtkf cf0Uk'gu° p'f gui cuvcf qu'q'f guj krej cf qu.'ter »pgm" kpo gf k°co gpvg'c'uw'wkr gtxkuqt0'

ÉÁ O k°g'f gdclq'f griecr » "{ 'tgxkug'gri°cegkx'x'gri°pkxgri'f g'qtqu'hmkf qu0T ggo r nreg'qu'hmkf qu'pgeguetkqu0'

ÉÁ Uk'uw'eqo r c° ¶c'q'gri°F gr ct°co gpvg'f g'Vt°pur qt°v'q'g'v°t°g'g'cugi wt°g's wg'vgpi c'c'dqtf q'wp'gz v°pvt0'

ÉÁ Tgxkug'r ctc'cugi wtct's wg'vgpi c'h°egu'dgpi crcu'q'cr ctcvqu'tgh°p°vqtgu0'

ÉÁ Gzco kpg'rcu'h°p°vqu'r ctc'f g°gevct'f gui cuvg'f { ° tgcuh°ku0T gr qt°v'ewcrs wkg't'r tqdigo c'c'uw'wkr gtxkuqt0'

ÉÁ Cugi wt°g's wg'rcu'h°p°vqu'vgpi cp'rc'r tgu°p'eqttgevc0'

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☞ **ÁRevise el panel de instrumentos y todas las luces de advertencia después de arrancar el vehículo.**

ÉÁ Cugi wt°g's wg'qu'o cp»o gvtqu'f gp'kpf lec°ekpgu'pqto crgu0'

ÉÁ Tgxkug't° r kf co gpvg'gri's wkcj kpmu."ecrphceek°p."dqekpc."h°egu'x'rk° r kr ctdtku0'

ÉÁ Tgxkug'rc'qr gtce¶pp'f g'f k°geek°p'f { 'htgpqu0'

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P wguuq'xgj ¶wruqu'r wgf gp'ugt'pwguuq'gs wkr q'o ° u'ko r qp°p°v°=ukp'gmqu'pq'r qf go qu'j cegt'pwguuq'vcdclq0'Gri° o cpvgplo lgpvq'f g'r t°gxgpe°p'tgi wrc't'c'f wf ct°a ° c'cugi wtct's wg'uki cp'h°pekqpcpf q'dkpg'f wt°p°v°o wej q'vgo r q." { °co dl°p'cugi wtct°a ° s wg'gu°? gp'eqpf kekpgu'ugi wcu'r ctc'o cpglct0'"



Eqpuglqu'f g'Gpwt gpc o kgpw'f g'O cpvgplo kgpw'f g'Xgj Qwru''

É' F go quwtct'wpc'kpur geek»p'fktlc'f g'xgj Qwru0'  
É' Gpug° ct'c'ru'go r rncf qu'e»o q'ngxct'c'ecdq'ewcrs wkg't'o cpvgplo kgpw's wg'Wf 0's wkg'tc's wg'gmqu'ugcp"  
É' J cegt'ru'r tgi wpcu'uki wkgpvgu<'  
É' äEw³ ngu'uqp'cni wpcu" t gcu's wg'tgxkuct'f wtcpvg'cni'tgxkuk»p'eqkf kpc'f g'o cpvgplo kgpw'f g'xgj Qwru'A'  
É' äRqt's w² 'wkgp'ugp'kf q'tgxkuct'ru'xgj Qwru'gp'ni ct'f g'uko r rgo gpw'r gppkkt's wg'gni'o ge³ pleq'ru"  
gzco kpg'ewcpf q'j c{ "wp'r tqdrgo cA"

P qvcu'

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TODOS LOS CONCURRENTES DEBEN FIRMAR"

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Rt gxppek»p 'f g'F c° qu'Rqt 'Ci wc ''

Nqu'f c° qu'r qt 'ci wc'eqpukw'f g'wpq'f g'hqu'vgo qt gu'bo c { qt gu'f g'hqu'eqpvtc'vku'cu'f g'vgej qu'0O wej cu'xgegu'gu' wpc'ectt gtc'eqpvtc'rc'O cf t g'P cwt cng' c'r ctc'eqpust wkt'wp'vgej q'cpvgu'lg'rc'ngi cf c'f g'rc'mwxlc'q'rc'plgxg0Cn' hkp cn'f gnf'f'c'wpc'f g'rcu'r t gqewr cekp pgu'r t lpek' cngu'gu'rc'f g'cugi wt ct's wg'wp'vgej q'eqpust wkt'q'c'bo gf kcu'gu'v' dlep'ewdkt vq'f' 's wg'hqu'f t gpclgu'gu'v'p'f gur glcf qu'0Wp'uqm'gtt qt'r wgf g'ecwuct'gn'eqrcr uq'q'f c° q'c'wp'ukungo c' f g'vgej q.'f' { 'q'hekp cu'q'ecucu'go r cr cf cu'0

"

### ☞ **Ávigile siempre el clima, especialmente durante arranques de techos.**

ÉÁ T gxlug'gn'r tqi p»uueq'f gn'vgo r q'gp'rc'bo c° cpc'f' { 'eqp'ht gewgpek'c'vtx² u'f gnf'f'c'0

ÉÁ Guewej g'gn'tcf kq'f g'vgo r q'f' { 't gxlug'tgi wrto gpvg'gn'r tqi p»uueq'f g'vgo r q'r qt'vgr' hqpq0

"

### ☞ **Áesté preparado para el tiempo inclemente.**

ÉÁ Vgpi c'c'bo cpq'mpcu'r r'f uuecu'0

ÉÁ Gu'bo glqt'ewdtk'gn'gs wkr q'ugpukng'gp'gn'gf khek'cpvgu'f gn'plek'f gn'tcdclq'r gtq'uk'pq'ng'j c'j' gej q' gu'v' hkuq'r ctc'gpt ct'f' { 'ewdtk'ng'uk'go r kq' c'c'mxgt'ewcpf q'pq'j c'f' { 'r tqvgeek»p'eqo r ngv'gp'gn'vgej q'0

ÉÁ P qvg'f' { 'cr wpvg'hqu'f c° qu'r qt'cs wc'cpvgtkqt gu'gp'gn'gf khek'f ctc's wg'uw'eqo r c° f'c'pq'ugc't gur qpucdk' r k cf q'r qt'gn'f c° q'gz kugpvgo

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### ☞ **Ámantenga los drenajes limpios de escombros.**

ÉÁ Cugi wt g's wg'hqu'f t gpclgu'pq'ug'cvqtgp'f wt cpvg'mwxlc'f' { 'ewcpf q'rc'ewcf t krc'ug'xc'f gn'gf khek'q'0

"

### ☞ **Ánunca deje el techo abierto.**

ÉÁ Cwp'uk'gn'r tqi p»uueq'kpf lec'ekmqu'f gur glcf qu'pq'f glg'gn'vgej q'cdkt vq'0

ÉÁ Vqf cu'rcu'a t gcu'f gn'vgej q'f gdgp'guvct'c'r t wgd c'f g'ci wc'cn'hkp cn'f gnf'f'c'0

ÉÁ Nqu'grgo gpvqu'cuqekcf qu'eqp'gn'vgej q'f gdgp'kpur geekpctug'cpvgu'f g's wg'Wf 0'f' { 'uwu'eqo r c° gtqu'ug' xc'f cp'f gn'ukq'f g'tcdclq'0

"

### ☞ **ÁAl dueño del edificio o gerente de planta se le debe proYeer un número de emergencia de 2-4 horas donde él o ella puede encontrar a un supervisor de campo.**

ÉÁ Uw'uw' gtxluqt'f g'eco r q'vgpf t'a'ceeguq'c'rcu'mpcu'f g'r r'f uueq.'cur kcf qt gu'f g'ci wc.'f' { 'ewcns wkt'qvt q' gs wkr q'pgeguclq'gp'ecuq'f g'wpc'go gti gpek'f g'f c° qu'f g'ci wc'0

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## Vlgo r q'/'Ngulqp agu'Rgt uqp c i gu'

☞ **En algunos climas septentrionales Ud. puede estar trabajando en temperaturas peligrosamente frías.**

ÉÁ X¶ucug'r ctc'eqpugt xct'ecmt'eqp'ecr cu'f g'tqr c"

ÉÁ Rtq² lcug'rc'ecdgl c.'rcu'o cpqu'{''qu'r lgu"

ÉÁ O cp² pi cug'cngt'c'r ctc'lpf lekqu'f g'eqpi gñek»p'/'j qto ki wgq.'gueq| qt.'gpwo geko kgpvq'/'s wg'r wgf cp" eqpf wekt'c'rc'eqpi gñek»p0'

ÉÁ Gu²'eqpuekpgv'f g'ur gtñekgu'eqpi gñf cu'f qpf g'r wgf g'guvct't gudcmqu.'gur gekm gpvg'gp'gn'dqtf g'f gñ' vgej q'/'gp'qu'vgej qu'go r kpcf qu0'

"

☞ **Durante los meses de verano, y todo el año en algunos climas sureños, la temperatura puede quedarse en 90 y 100 grados F (cerca de 35 a 40 grados Centígrados).**

ÉÁ Nc'tqr c'f g'eqmt'ercqt'{''wp'uqo dtgtq'eqp'cñc'c' wf ct'a p'c'r tqvgi gñg'f g'qu'tc'{' qu'wñcxkqngvqu' f c'o kpqu.'{' gp'tgñkf cf 'ñg'o cpvgpf t'a p'o a u'ñt gueq's wg'uk'pq'ñgxcde'uqo dtgtq'pñt'ñt'pñc0'

ÉÁ Vqo g'f gñecpuqu'ñt gewgpgu'{''vqo g'o vej c'ci wñ0'

ÉÁ Uk'ukpgv'ecñc'o dtgu'q'ug'ukpgv'gzj cwñq.'dwus wg'uqo dtc'q'cñt'g'ceqpf lekqpcf q0'

ÉÁ Uk'pqv'lpf lekqu'f g'kpuñek»p'/'r kñi'ñec'{''tqlc.'{' eqpf wñc'gz vñc'o c'/'gp'ewñs wñgtc'f g'uñu' eqo /r c'o gtqu'f g'tcdclq.'gñt'ñg'kpo gf kñc'o gpvg'{''ñc'o g'c'wpc'co dwñpek0'

ÉÁ Gxkg'eñg'ñc'{''cñeq qññc'pñeq g'cpvgu'f g'wp'f 'ñc'f g'ecmt0'

"

☞ **El Verano trae no tan sólo las temperaturas elevadas, sino también las tormentas con truenos.**

ÉÁ Uki c'gñr tqp»uñeq'f gñ'vgo r q'{''gu²'r tgr cñcf q'r ctc'egtñt'gñ'ukñq'f g'tcdclq'{''gxcewñt'gñ'vgej q0'

ÉÁ Nqu'xkpgvqu'cñqu.'ñc'mñxc.'{''gñi tñpñ q'j ct'a p'o w' r gñi tqqu'gñ'etw' ct'gñ'vgej q'{''uñdñ'ñc'gñecrgñc0'

ÉÁ Nqu'tcxqu.'ewcñf q'vñecp'vñgtñc.'o vej cu'xgegu'uqp'ñc'vñgu0'

"

Wpq'f g'qu'dgpgñekqu'f g'tcdclq'f g'vgej qu'gu's wg'ug'r wgf g'tcdclc't'c'ñc'lpvgo r gñtñg.'r gtq'vñc' dñf p'r wgf g'vñpgt' uñu'f guxgpñcñu0'Ncu'vgo r gñcwtñc'gz vñgo cf co gpvg'cñcñu'q'dñcñu'r wgf gp'vñpgt'gñgñvqu'o c'{' qt'gu'gp'gñ'ukñgo c' f g'uñ'ewgñr q'f g'tgi wñt'ñc'vgo r gñcwtñc.'{''ñc'u'eqpf lekqpgu'cf xgtñu'r wgf gp'j cegñ's wg'gñ'ukñq'f g'tcdclq'ugñc' r qvgñekm gpvg'r gñi tqqu0'F kñt'wg'gñi gñeq q'f g's wg'tcdclg'c'ñc'lpvgo r gñtñg.'{''vgo g'r tgecñekqpgu'r ctc's wg' r wgf c'f kñt'wñt'j cuñc'qu'f 'ñc'u'gur gekm gpvg'ecñtququ'q'ñt'ñqu0'

"

"



É' Gzr nect'ic'r qn'flec'f'g'ic'eqo r c'o'f'c'r ctc'2 ph'gpvct'f'f'cu'ecm'ququ.'q'ic'r qn'flec'f'g'qo ct'f'guecpuqu'  
cf'lekqpcrgu.'gve0'  
É' Ego r c't'w'ewc'm wkt'j'kwq'ic'f'g'ic'eqo r c'o'f'c'cegtec'f'g'r tqdngo cu'eqp'gn'vgo r q0'  
É' J cegt'ic'u'r tgi wp'cu'uki wkp'vgu'<  
É' äDclq'ew'rgu'ekewpucpekcu'ug'f'gdg'gxcewct'gn'r gtupcn'f'gn'vgej qA'  
É' äS w'ug'f'gdg'j'cegt'uk'wp'eqo r c'o'gtq'f'g'vtdclq'f'c'kpf'lekqu'f'g'kpuqmek'pA'  
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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## ***Kpxgunki cekp'f'g'Ceekf gpvgu'***

Ewcpf q'ngu'cegkf gpvgu'qewttgp. "Wf 0pq'v'gpf t' s'wg'r'tggewr ctug'f'g'kpxgunki ctrqu="ulp"go dcti q.'gu'o w'f' "ko r'qt'wcpvg'uwr'cr'gn'gp'gn'r'tqeguq'f'g'r'c'kpxgunki cf »p0Guxc'Rrf v'ec'f'g'J' gttco k'gpvcu'ig'f'c'r'c'kphqto cekp's'wg" p'geg/ukc'ucdgt'cegtec'f'gn'r'tqr »ukq'f'f' r'tqegf ko k'gpvcu'f'g'r'c'kpxgunki cekp'f'g'ceekf gpvgu0'

"

☞ **Es importante que los accidentes se investiguen a fondo y en cuanto sucedan.**

ÉA Nc'o gvc'f'gn'kpxgunki cf qt'ugt'a' f'g'f'guewdtk'iq's'wg'uwegf k' »r'ctc's'wg'ug'r'wgf cp'r'tgxgpk'ngu'ceekf gpvgu" uko k'rt'gu'gp'gn'hwwtq0'

ÉA Rt'gxgpk'."pq'ewr'ct.'gu'r'c'ercxg'f'g'wpc'kpxgunki cekp'p'gz'kquc0'

"

☞ **Es muy importante al investigador lo que sucedió antes, durante, y después de un accidente para que él o ella pueda comprender completamente lo que sucedió.**

ÉA P q'q'rkf'g'f'g'dms w'gct'gn'a' t'gc'f'gn'ceekf gpvg'eqp'ek'p'c'f'g'dctt'gtc0'

ÉA P q'v'q's'wg'gn'gs w'kr q'x'rcu'j' gttco k'gpvcu'kpxq'wctcf qu'gp'gn'ceekf gpvg'j' cuvc's'wg'gn'ktp' guki cf qt'pq'f'ki c" s'wg'ug'r'wgf cp'o q'xgt0'

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☞ **Si Ud. es testigo de un accidente, Ud. jugará un papel importante en prevenir accidentes en el futuro.**

ÉA Cr'wpvg'gz'cewco gpvg'iq's'wg'Wf 0'xkq."q'f' »."g'j' k'q.'r'ctc0's'wg'iq't'gewgtf g0Rqf t'cp'r'cuct'f'cu'cpvgu'f'g" s'wg'gn'kpxgunki cf qt'r'kf c'u'w'eqp'atk'w'ek'p0'

ÉA Vqo g'h'vqu'q'j' ci c'wp'd'qus w'glq'f'g'r'c'guegpc'gp'r'cr'gn0'

ÉA T'gewgtf g'p'q'ucn'c'f'g'ngu'j' gej qu="pq'cf k'x'k'p'g'cegtec'f'g'iq's'wg'Wf 0'et'gg's'wg'v'cn'x'gl' 'uwegf k' »0'

ÉA Rlf c'r'gppluq'r'ctc'gz'co k'pct'f'g'p'w'xq'rc'guegpc'f'gn'ceekf gpvg'uk'et'gg's'wg'v'cn'x'gl' 'c'f' w'f'ct'a' 0'

"

Nc'o gvc'f'g'p'w'g'ut'c'eqo r'c'o'f'c'gu'r'c'f'g'r'f'gxgpk'ceekf gpvgu0'Ewcpf q'uwegf gp.'p'gegukco qu'j' cegt'v'qf q'iq's'wg" r'qf co qu'r'ctc'r'tgxgpk'ngu."f'f' 'rc'kpxgunki cekp'f'gn'ceekf gpvg'gu'wp'r'cuq'o w'f' 'ko r'qt'wcpvg'gp'guvg'r'tqeguq0'

"

"



*Egɸuɸlqu'f g'Gpɸ gpco kɸwɸ'f g'kɸxuɸki cekɸp'f g'Ceekf gpɸu'*

𐀀𐀮 Gpuḡ ct'ewcngus wkt 'happwactku's wḡ'uw<sup>2</sup> o r ṅcf qt 'wug'r ctc'tgr qt vct'g'kpxguki ct'kpekḡ gpvḡu'  
 𐀀𐀮 Uk'Wf 0r wḡf g'dqtct' 'hqu'pqo dtgu.'gpvapegu'f kmtkdwk' 'happwactku'wucf qu'gp'wpcu'kpxguki cekqpgu'r cucf cu'  
 𐀀𐀮 F ct'wpcu'glgo r ṁu'f'g'rc'o cpgtc'gp's wḡ'hqu'j cmc| i qu'f'g'wpc'kpxguki cekḡp'eqpf wltqp'c'eco dku'f'g"  
 r qm'k'ecu'f'g'rc'eqo r c°'c0'  
 𐀀𐀮 J cegt'c'rc'ewcf tkrc'wpcu'r tgi wpxcu'  
 𐀀𐀮 äRqt'f'w<sup>2</sup> 'gu'ko r qt wcvḡ'pq'cf kxkpct' 'hḡ's wḡ'uwegf kḡA'  
 𐀀𐀮 äEw<sup>3</sup> n'gu'gn'dgpg hlek'f'g'cr wpcvt'rcu'equcuA'  
 𐀀𐀮 äRqt's w<sup>2</sup> 'gu'ko r qt wcvḡ'dmḡs wgtc'gn<sup>a</sup> tgc'f'qpf g'qewttkḡ'gn'ceekḡ gpvḡA'

$P \rightarrow Q \vee C \cup K''$

[illegible]

Vgo cu'CflekqpcrguJ cdrf qu<aa  
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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

[illegible]





# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

## E»o q'Gpht gpwt 'wpc 'Kpur geek»p 'f g'QUJ C''

- ☞ **Si un inspector de OSHA viene a su sitio de trabajo, informe inmediatamente a su supervisor para que pueda llamar a la oficina para informar al empleador que OSHA está inspeccionando el trabajo.**

ÉÁ Wp'o lgo dtq'f g'rc'i gtgpek'cnd'xgl 's wgtt'a 'r ctvlekr ct'gp'rc'lpur geek»p0'

"

- ☞ **Sea cortés, pero pida las credenciales del inspector de OSHA. El inspector está obligado a hacerlo y debe enseñárselas sin problemas.**

- ☞ **Su empleador o el representante de la compañía tiene el derecho de exigir que el inspector de OSHA tenga una orden judicial de entrada antes de que inspeccione el sitio de trabajo.**

ÉÁ Guq'r wgf g'r ctgegt'wp'cevq'f g'o cr'c'hg.'r gtq'rc'f gekul»p'gu'rc'f g'uw'go r rgcft qt0'

"

- ☞ **Si el inspector le hace preguntas a Ud., conteste con la verdad.**

ÉÁ Gnl'pur gevqt'vkgp'rc'cwqtkf cf 'f g'j cdrct'eqp'Wf 0'gp'r tkxct q0'

ÉÁ P wpec'o lgpvc.'r gtq'pq'qhtgl ec'lphtqto cel»p'cf lekqpcn'pk'cf o kc'ewr cdkkf cf 0'

ÉÁ Uk'Wf 0'pq'ucdg'rc't gur wguvc'guv' dkgp'f gek't's wg'pq'ucdg0'

ÉÁ Vco dk'p'guv' r gthgevc gpvg'dkcp'pq'f ct'wpc't gur wguvc'uk'pq's wktg0'

"

- ☞ **Si el inspector nota cualquier problema, trate de arreglarlo en el mismo momento.**

ÉÁ Guq'f go qutct'a 'dwgpc'hg'r ctc'eqttgi kt'r grki tq0'

ÉÁ Ulp'go dcti q.'pq'cf o kc'ewr cdkkf cf 'pk'tgeqpq| ec's wg'gnr tqdngo c'eqpukw{ c'wpc'xkqrcek»p0'

"

- ☞ **Mantenga notas mentales de todo lo que diga el inspector.**

QUJ C'gzkngr'c'tc'cugi wtct's wg'Wf 0'gpi c'wp'hwi ct'f g'tcdclq'ugi wtq0'Ugc'eqqr gtcvxxq.'j qpguvq.'{ 'co knquq.'" r gtq'ugr c'inu'f gtgej qu's wg'Wf 0'f 'uw'go prgcft qt'vkgp'f wtcpvg'wpc'lpur geek»p0'"

"



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*Eqpuglqu'f g'Gpvt gpc o kgpw'gp 'E»o q'Gpht gpvct 'wpc 'Kpur geek»p 'f g'*  
*QUJ C'''*

”

É' Gphcvt ct's wg'ewcns wkt 'equc's wg'iqu'go r rncf qu'f ki cp'r wgf g'wuctug'gp'eqpvtc'f g'rc'eqo r c° p. 'r gtq's wg'  
pq'f gdgp'o gpvt 'cegtc'f g'pcf c0'  
É' Cugi wtct's wg'iqu'go r rncf qu'eqo r tgpfc p's wg'f gdgp'pqvktect 'lpo gf kvc o gpvg'c'wp'ur gt xkuqt. 'r ctc's wg'  
² nr' wgf c'mco ct'c'rc'qhkpc0'  
É' Tgkgtct's wg'iqu'go r rncf qu'pq'guv p'qdrki cf qu'c'eqpvgtct'r tgi wpcu0'

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\*\*\*\*\*Hgej c'\*\*\*\*\*Hko c'f grl's wg'Rtgupvc"

”

Vgo cu'Cflekqpcgu'J cdrf qu<aaa"  
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**TODOS LOS CONCURRENTES DEBEN FIRMAR"**

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# Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • **CNA** COMMERCIAL INSURANCE

## Rt qvgeekp 'f gñRÀdrleq''

☞ **Á**si por una parte es muy imponente salvaguardar a sus compañeros de trabajo de las lesiones, también tiene igual importancia el proteger al público de las actividades

☞ **Á**El separar al público lo más posible de los peligros reduce las probabilidades de lesiones."

ÉÁ Gp'ñ' r qukdng."o cpvgpi c'ñu'dcuwtgtqu."i tqcu."tccpur qtvcf qtgu."cr ctglqu."eqpf wexqu'f g'dcuwtc"{" "

ecrf gtcu'ñglqu'f g'xgpcpcu."gpxtcf cu."r cukñqu"{" 'ecmgu0'

ÉÁ Uk'p'q'gu'r t'a exleq'o cpvgpgt'ñ'ecrf gtc'ñglqu'f g'gucua" tgcu."gpvqpegu'j ci c'dcttlecf cu'r ctc'o cpvgpgt'ñ' r wdrleq'ñwgtc0'

ÉÁ Cñ'tcdclct'egtec'f g'gpxtcf cu."eqputw' c'w'p'ñqf q'ñwgtv0'

☞ **Á**El trabajo en escuelas presenta aun mas problemas debido a que hay niños curiosos en el área. Se deben tomar pasos de precaucion adicionales al estar en propiedad escolar. Si un niño se lesiona, probablemente habra reportes negativos en los medios de comunicación y posibles demandas judiciales.

ÉÁ S wkg'ñu'gucnrgtcu'ññhñcñf gñf'lc"{" 'r qpi cñu'dclq'ñcxg0'

ÉÁ O cpvgpi c'ñu'o cvgtkcñu'ññcñ cñrgu."eqo q'ñ'i cuññpc"q'gñr tqr cpq."gp'ññi ctgu'ñgi wtqu."q'ñ' s wññqu" f gñ'ñkñq'ecf c'pñej g0'

ÉÁ Gp'ñ'pñej g.'ekttg'eqp'ñcxg'ñu'ñr cu'f g'ecrf gtcu"{" 'ñu'x'a ñwñu'f g'ñcñf cf 0'

ÉÁ Uk'ug'f gñcp'xñj kewñu'q'gs wñr q'ñko kñt'f wtcpvg'ñ'pñej g.'cugi wtg'ug'ñcs wgp'ñu'ñcxgu"{" 'ekttg'eqp'ñcpg' ñu'r wgtñu0'

☞ **Á**Al trabajan el techo, recuerde que los estacionamientos usualment están abajo.

ÉÁ Ugr c's wñ'ñ' r ñpwñc'cr ñecf c'eqp'gñr tñ{" 'gp'ñej q'ñ wñf g'ecp'gññqu'ecttqu'cdclq0'

ÉÁ Gñ'wñq'f g'eqtvcf qtgu'f g'ñej qu'wñqñq'gs wñr q'o ge'a pñeq'r wñf g'ecwñt'gñeqo dtqu'xññf qtgu."ñ'ewññ r wñf g'f'c° ct'ñu'ecttqu0'

ÉÁ F wtcpvg'ñqf q'gñr tq{ gevq."{" 'gñr gekñcñ gpvg'f g'pñej g.'cugi wtg's wñ'ñqf qu'ñu'ct'ññwñqu'f gñcf qu'gp'gññ wñej q'gñu'p'cugi wñtcf qu'r ctc's wñ'pñq'ug'ñgñcpvgp'eqp'gññctg'r ctc'ecgt'gp'ñu'xñj ñewñu'gp'gññ gñceñqñcñ kpgñq0'

Cugi wtg's wñ'gñr Àdrleq'gñu' r tqvgi kf q'f g'ñu'qr gtceñqñpgu'f g'ñej q'f g'ñw'eqo r c° ñc0Nqu'f c° qu'c'ñ'r tqr kñf cf " r gñuqñcññ'ñu'ñgñqñpgu'c' b' gñcñ dtqu'f gñr Àdrleq'ecwñt'a p'wñc'ñcñ ci gp'pñi cñkñc'ñr ctc'ñw'eqo r c° ñc0

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ÉÁ J cegt'ncu'r tgi wpcu'uki wkpvgu<

ÉÁ äEw<sup>a</sup> ngu'up'vqf cu'ncu'o <sup>a</sup> pgtcu's w'g'ug'r w'f ktc'wuct'r etc'egtct'©p<sup>a</sup> tgc'f gnr'ÀdrleqA"

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**SECTION H**

**SAFETY TIPS FROM  
SCF OF ARIZONA**



## A BASIC SAFETY STRATEGY

P q'o cpci gt'qt'dwulpguu'o cpci gt'y cpw'cp'ceekf gpv'v'j'j cr r gp'cv'j' ku'qt'j' gt'r nceg'qh'dwulpguu0C " ugtkqwu'ceekf gpv'qt'nquu'qh'rhg'ecp'ecwug'i tgc'v'go qv'kpcn'tcwo c'cpf'ecp'dg's wkg'equu'0Wuwcm'." k'qpn' 'vcngu'c'rkwn'qti cpl' cv'qp'cpf' uqo g'f kki gpv'uwr gtxluqt { 'unkmu'vq'etgc'v'c'uchgv' 'ewmw'g' y kj kp' { qwt'dwulpguu'v'q'nggr " { qwt'go r m { ggu'uchg'ht qo 'kplwt { 0"

Vj g'dcule'uchgv' 'r ncp'eqpuku'qh'hqwt'r ctu0Gcej 'r ctv'r m { u'c'r kxqcn'tqng'kp'v'j g'r ncp'cpf' 'ku' g'zr m'kpgf 'dgm'y <"

### *O cpci go gpv'Ego o ko gpv'epf 'Go r m { gg'kpxqixgo gpv'"*

Cu'v'j g'qy pgt'qt'o cpci gt'qh'c'dwulpguu." { qwt'cwkwf g'v'qy ctf'uchgv' 'ku'etk'lecn'cpf' 'y kn'dg' tgh'gevgf 'd { " { qwt'go r m { ggu'0K' { qw'dg'kxg'lp'uchg'y qtn'r tce'v'egu."cpf' 'j' qnf' " { qwt'go r m { ggu' ceeqwp'cdrg.'v'j g' { 'y kn'hqmy " { qwt'gzco r ng'0F go qp'ut'cv'g' { qwt'eqo o ko gpv'd { 'kpxqixkpi " { qwt' go r m { ggu'kp'v'j g'r ncp'kpi 'cpf' 'ko r ngo gpv'cv'qp'qh'v'j g'uchgv' 'r ncp'0K' { qw'kpxqixg' { qwt'go r m { ggu' kp'kf gpv'k'kpi 'cpf' 'tguqixkpi 'uchgv' 'kuu'gu.'v'j g' { 'y kn'y qtn'v'q'cej kxg'v'j g'i qcr'0"

Vj g'hqmy kpi 'ctg'uqo g'umi i gukqpu'v'q'ko r ngo gpv'<

- Á Rquv' { qwt'eqo r cp { 'u'uchgv' 'r qnle { 'pgz'v'v'v'j g'eqo r n'cpeg'r quv'gtu'y j gtg'v'j g'go r m { ggu'ecp' ugg'k0'
- Á J qnf' 'c'o gg'v'kpi 'y kj " { qwt'go r m { ggu'v'q'eqo o w'p'ec'v'g'v'j g'uchgv' 'r qnle { 'v'q"
- Á v'j go 0F wt'kpi 'v'j g'o gg'v'kpi . 'f k'uewu' { qwt'qdl'ge'v'x'gu'cpf' 'ug'v'i q'cnu'hqt'uchgv' "
- Á cpf' 'j' gc'nj 0'
- Á Uj qy 'uwr r qtv'd { 'vcnkpi 'cp'ce'v'x'g'r ctv'lp'v'j g'o gg'v'kpi 0Hqt'gzco r ng.'eqpf wev'v'j g'o gg'v'kpi " { qwt'ug'h'cpf' 'r gtuqpc'm { 't'gx'kgy 'cm'l'pur ge'v'k'p'cpf' 'ceekf gpv'tgr qt'v'u'v'q'gp'uw'tg'hqmy /w' " y j gp'pggf gf 0'
- Á O cng'uwt'g'y cv' { qwt'o cpci gtu'cpf' 'uwr gtx'kuqtu'hqmy "cm'l'uchgv' 't'gs wkt go gp'u'g'zr ge'v'gf 'qh' go r m { ggu'0Hqt'gzco r ng.'y cm'l'kpi 'v'j tqwi j 'cp'ctgc'y j gtg'uchgv' 'i m'uugu'ctg't'gs wkt gf 'cpf' 'pqv' y gct'kpi 'v'j go 0K' { qw't'gs wkt g'r gtuqpc'n'r tq'ge'v'x'g'gs wkr o gpv'lp'c'ur ge'k'le'ctgc'cpf' " { qw'ctg' kp'v'j cv'ctgc.'y gct'v'j g'gs wkr o gpv'0'

### *Y qt m'kg'Cpc'f'ku'"*

[ qw'uj qwf'eqpf wev'r g'kqf'le'k'pur ge'v'k'p'u'qh' { qwt'qr g'v'k'p'u'v'q'gp'uw'tg'v'j g'j' c| ctf'u'ctg' 'g'k'j gt' g'ko k'p'cv'gf'qt'o k'p'ko k'gf 0| qwt'U'cv'g'Ego r gp'uc'v'k'p'H'wpf 'Nquu'E'q'p'v'q'n'Tgr t'gug'p'v'x'g'qt'q'v'j gt' uchgv' 'r tq'hgu'k'p'cnu'ctg'cx'ck'cdrg'v'q'j grr " { qw'kf gpv'k'h' { 'r q'v'p'v'cn'j c| ctf'u0"

J gtg'ctg'uqo g'q'v'j gt'ce'v'k'p'u' { qw'ecp'vcng'<

- Á Cu'ki p'v'gco u'v'q't'gx'kgy 'gcej 'lqd'hqt'j' c| ctf'u'lp'r tqegf wt'gu'qt'gs wkr o gpv'0Vj ku'uj qwf' 'dg' f qp'g'tgi w'c'tn' { 'h'l'qdu'qt'r tqegf wt'gu'ej cpi g0'

"

"



- Á Rtqxf g'cp'qr gp/f qqt'r qrle{ 'y cv'etgcvgu'cp'cvo qur j gtg'hqt'cm'go r m{ ggu'q'tgr qtvr j {ukecn' j c| ctf u'cpf 'wpuchg'y qtnlr tcevegu0'  
"

### *J c/ctf'Rt gxgpwqp'čpf'Egpvqn'*

Chgt "{qw} cxg'f gvgto kpgf 'y j gtg'y g'j c| ctf u'cpf 'r qvgpvknj c| ctf u'ctg'y kj kp "{qwt'dwukpguu0}{qw' ecp'ko r ngo gpv'y g'u{ ugo 'y cv'y kn'gkj gt'grko kpcv'qt'o kpo k g'y go 0"  
"

Ugo g'ui i gukqpu'v'eqpukf gt'kpenmf g<

- Á Etgcvg'uchg'y qtnlr tqegf wgu.'dcugf "qp'y g'cpcn{uku'qh'lqd'ur gekhe'j c| ctf u0O cng'uwg'y g' go r m{ ggu'wfp gtucpf 'cpf 'hnmqy 'y g'r tqegf wgu0'
- Á Gphqteg'y g'uchgv{ 'twgu0Uqrlek'kpr w'hqo 'y g'go r m{ ggu'qp'y g'f kuekr nkpt { 'cevqp'v'dg' wngp'kh'c'xkqrwqp'qeewtu0'
- Á Rtqxf g'y g'pgeguuct { 'r gtupcnlr tqvevkg'gs wkr o gpv0Uchgv{ 'i nuugu0t gur kcvqtu0uchgv{ 'uj qgu' cpf 'i mxgu'ctg'gzco r ngu'qh'gs wkr o gpv'y cv'o ki j v'dg'pggf gf 0O cng'uwg'y g'go r m{ ggu'ctg' r tqr gtn{ 'vckpgf 'qp'y g'wug'cpf 'ectg'qh'y g'gs wkr o gpv0'

### *Vtcklpi '[ qwt'Go r m{ ggu' "*

Vtcklpi 'ku'etkkn'v'y g'ceekf gpv'r tngxpvqp'r ncp'cpf 'pq'go r m{ gg'uj qwf 'dg'cmqy gf 'vq' wfp gtvcng'c'lqd'cuuki po gpv'wpknj g'qt'uj g'j cu'tgegkgf 'y g'r tqr gt'vcklpi 'cpf 'cwj qtk cvkp0"

Qy gt'cevqpu'v'eqpukf gt'kpenmf g<

- Á Vj g'go r m{ ggu'uj qwf 'dg'vckpgf 'cpf 'kphqto gf 'qp'gxgt { 'r qvgpvknj c| ctf 'v'y j kej 'y g{ " o ki j v'dg'gzr qugf 0Vj g'vcklpi 'uj qwf 'dg'gxcnwvgf 'v'xgtkh{ 'y cv'y g'go r m{ ggu' wfp gtuvqf 'y g'kphqto cvkp0'
- Á Pgy n{ 'j kgt'qt'npv /vgo 'go r m{ ggu'o qxlpi 'v'f khtgpv'lqd'cuuki po gpv'ecp'dg'y g'o quv' rkngr{ 'v'uwvckp'kplwt { 0Vj gk'cevqpu'uj qwf 'dg'o qpkqtf 'd{ 'y gk'uw gtuku0'
- Á O cng'uwg'uw gtuku0'hpqy 'y g'j c| ctf u'cpf 'r tgecwkpct { 'o gcuwgu'hqt'cm'ctgeu'cpf " go r m{ ggu'hqt'y j kej 'y g{ 'ctg'tgur qpukng0Vj g{ 'uj qwf 'dg'cdng'v's wknm'ghtguj gtu0' tgo kpf gtu'cpf 'f kuekr nkpt { 'cevqp'y j gtg'tgs wktgf 0'

Rgcug'nggr 'kp'o kpf 'y cv'y g'grgo gpv'kuvf 'ctg'pqv'cm'kpenwuxg'cpf "{qwt'ur gekhe'r ncp'o ki j v' tgs wktg'cf f kkpncn'grgo gpv0'

"

"



## THE BENEFITS OF SAFETY MEETINGS

Y j { 'ku'k'uq'ko r qtcv'v'j cv'uw' gtxkuqtu'cpf 'hqtgo gp'o ggvt'gi wrctn' 'y kj 'uo cni' tqr u'qh' go r m{ ggu'v'q'f kuewu'v'j g'xctkqu'cur gew'qh'lqd'uchgv' 'cpf 'j gcnj ADgecwug'k'ku'r tko ctkn' 'v' tawi j " hceg/vq/hceg'eqpwcev'v'j cv'ghgevkxg'eqo o wplecvkqp"qp'v'j g'uwdlgev'ecp'v'cng'r meg0Vj g'qr gp." kphqto cni'cw qur j gtg'qh'c'uo cni' tqr 'o ggkpi 'gpeqwtci gu'v'j g'nkpf 'qh's wguv'kpu'cpf 'f kuewu'kqp" v'j cv'Sr gtupcni' g\$'v'j g'kuw'g'qh'uchgv' 'd{ 'hgewukpi 'qp'ku'f c{/vq/f c{ 'cr r nkecvkpu0Y j cv'ctg'q'v'j gt" dgpghku'qh'j qrf kpi 'tgi wrct'uchgv' 'o ggkpi uA"

**They encourage safety awareness.** "Uqo gko gu."q'v'j gt'o gcpu'qh'i gw'kpi 'v'j g'uchgv' 'o guuci g" cetquu'ecp'dg'gcu'k' 'ki pqtgf 0Dw'y j gp'c'uo cni' tqr 'qh'go r m{ ggu'i gwa'v'q' g'v'j gt'v'q'f kuewu'v'j g" j c| ctf u'v'j g{ 'j cxg'gpeqwpvgtgf 'cpf 'v'j g'u'gr u'v'j g{ 'ecp'v'cng'v'g'ko kpcv'g'v'j go =k'kpetgcugu'gcej " y qtngt u'uchgv' 'eqpuekvupgu0"

**They get employees actively involved.** "K'c'ugpug."uchgv' 'o ggkpi u'r w'go r m{ ggu'k'p'c'ukwcvkqp" y j gtg'hggf dcm'ku'f go cpf gf 0Vj g{ 'o cng'v'j g'go r m{ ggu'v'j kpm'cdqwu'uchgv' 'cpf 'gpeqwtci g'v'j go " v'q'eqo g'wr 'y kj 'kf gcu'cpf 'uwi i guv'kpu'hqt'r t'gxp'v'kpi 'ceekf gpw."k'p'cf f k'kqp'v'q' 'o k'ko k' kpi 'v'j g" j c| ctf u'v'j kj 'y j kej 'v'j g{ 'ctg' 'o qu'v'ho k'kt0"

**They motivate employees to follow proper safety practices.** "Uo cni' tqr 'o ggkpi u'ctg'v'j g'dguv' r meg'v'q'f go qpucv'g'v'j g'wugu'qh'r tqv'g'v'kxg'gs w'r o gpv'r tqr gt'hk'kpi 'v'gej pks wgu'cpf 'q'v'j gt" ur gek'ke'uchgv' 'r tqegf wtgu0"

**They can eliminate major hazards.** "C'f gr ctvo gpv'uchgv' 'o ggkpi 'ecp'dg'wugf 'v'q'r kpr qkp'v'o k'pqt" j c| ctf u'dghqtg'v'j g{ 'ecp'tguw'v'k'p'tgcn'r tqd'go u0K'cnuq'r t'gugpw'c'i q'qf 'qr r qtwpk'v' 'v'q'f kuewu" j c| ctf u'v'j cv'ctg'k'p'j gtgpv'k'p'v'j g'y qtm'gpxk'k'qpo gpv'cpf 'v'j cv'g'zr g'k'gpegf "go r m{ ggu'ctg'r'kngn' 'v'q" v'cng'hqt'i t'cpv'gf 0"

**They provide vital information on the types and causes of accidents.** "Tgi wrct'o ggkpi u'ctg" v'j g'dguv'y c{ 'qh'hng'kpi 'go r m{ ggu'kphqto gf 'qp'p'gy 'j c| ctf u'k'p'v'j g'k'g'p'x'k'qpo gpv'cpf 'y j cv'v'j g" eqo r cp{ 'ku'f qkpi 'v'q'g'ko kpcv'g'v'j go 0Vj g'o ggkpi u'ecp'cnuq'dg'wugf 'v'q'eqo r n' 'y kj "QUI C" tgi wr'v'kpu0"

Vj g'Ucv'g'Ego r gpucv'kqp'Hwpf 'ecp'cuukv'ku'r q'k'k'j q'rf gt'u'k'p'eqpf w'v'kpi 'v'j g'k'uchgv' 'o ggkpi u'd{ " r tqxk'f kpi "c'xctk'gv' 'qh'uchgv'/t'g'v'g'f 'o cvgt'k'ni'cpf 'xk'f gqu0Rgcug'ecni' { q'w' 'h'qecni'f k'ut'k'v'q'h'k'g'hqt" cuukucpeg0"

"

"



## Vehicle Safety On The Site

Xgj kergu'ceeqpvhqt'c'rti g'uj ctg'qh'ceekf gpvnrkplwtkgu'cpf 'f gcvj u'qp'eqpwtwekqp'ukgu0Nkng' j ki j y c{ 'ceekf gpw0o quv'qh'vj gug'ceekf gpw'ecp'dg'cxqkf gf 'd{ 'uko r n{ 'r c{ kpi 'cwgpvkqp'cpf " npqy kpi 'vj g'twrgu'hqt'wukpi 'xgj kergu'qp'c'y qtnlukg0Vj g'tchle'twrgu'cpf 'ur ggf 'rko ku'c'vj g'ukg" ctg'kp'r'ceg'vq'o cng' '{ qwt'lqd'uchgt0Cmif tkxgtu'cpf 'qr gtcvqtu'ctg'gzzr gewgf 'vq'hqmqy 'vj go 0"

## Operating Vehicles

Qpn{ 'y qtngtu'y kj 'f qewo gpwgf 'tckpkpi 'uj qwf 'qr gtcvg'xgj kergu'cpf 'gs wkr o gpv'qp'ukg0Qp'c" unqr kpi 'uwthceg'qt'j km'cny c{ u'f tkxg'wr 'cpf 'f qy p'tcvj gt'vj cp'cetquu0" Kf{ 'qw'o wuv'f tkxg'cetquu'c'uggr 'j km' '{ qw'ecp'tgf weg' '{ qwt'ej cpegu'qh'tqmkpi 'd{ 'cwcej kpi 'vj g' xgj kerg'y kj 'c'y ktg'tqr g'vq'cpqy gt'xgj kerg'vj cv'ku'ucdkrk gf 'cv'vj g'vqr 'qh'vj g'j k0" Y j gp'tcxgkpi 'f qy pj km'hggr 'vj g'ur ggf 'wpf gt'eqpvtqn'y kj 'mqy 'i gctu'cpf 'dtcngu'uq' '{ qw'ecp" uvqr 'cv'cp{ 'ko g0" Dcenlwr 'qpn{ 'y j gp' '{ qwt'g'egtckp'vj cv'pq'qpg'ku'dgj kpf ' '{ qw0Kf{ 'qwt'g'pqv'uwg' 'i gv'qw'cpf 'ej gem' qt'wug'c'i wkf g0"

## Transporting Workers

Vj g'r cuugpi gt'hqcf 'rko k'hqt'hrcvdf 'twemu'f wo r 'twemu' 'r kemw 'twemu'cpf 'vj g'hkng'ku'pq'o qtg" vj cp'vy q'y qtngtu'qwukf g'vj g'ecd.'wpguu'vj g'twenfj cu'tcku'qt'ukf gu0" Rcuugpi gtu'qwukf g'vj g'ecd'o wuv'uc{ 'ko o gf kcvgn{ 'dgj kpf 'kv'cpf 'j cxg'uwkcdrg'i tcd'ktqpu'qp'vj g' ecd'hqt'j cpf j qrf u0" Y qtngtu'o c{ 'pqv'tkf g'qp'vqr 'qh'ukf g'tcku.'twppkpi 'dqctf u'qt'hgpf gtu.'qt'y kj 'ngi u'j cpi kpi 'qxgt" vj g'ukf gu0" Cp{ 'xgj kerg'vj cv'tgi wrctn{ 'tccpur qt w'y qtngtu'qpeg'c'f c{ 'qt'o qtg'o wuv'j cxg'ugewt'g'ugcw'y kj " uchgv{ 'dgnu.'tckkpi u'cpf 'uvgr u'hqt'i gwkpi 'qp'cpf 'qh0" P gxgt'erko d'qpvc'xgj kerg'y j kg'ku'kp'o qv'qp'qt'tkf g'qp'j gcx{ 'gs wkr o gpv'cp{ y j gtg'dw'kp'c" ugcv0"

## Maintaining and Repairing Vehicles

Xgj kergu'o wuv'dg'o ckpcckpgf 'qp'c'tgi wrct.'f qewo gpwgf 'uej gf wrg'hgr v'qp'hkng0Dghqtg' '{ qw'vcng'c" xgj kerg'htqo 'vj g'uwqci g'ctgc0cny c{ u'ej gem'vj g'dtcngu.'uvgtkpi 'cpf 'y ctpkpi 'uki pcn'cpf 'wug'vj g' xgj kerg'qpn{ 'kh'gxgt{ vj kpi 'ej gem'qw0Tgr qt'v'hqug'dqnu.'hmkf 'cpf 'ck'hgcmu.'dtqngp'uvgr u." j cpf j qrf u.'y kpf qy u'cpf 'uq'hqt'vj 0Engcp'y kpf uj kgrf u'cpf "o ktqtu0Mggr 'vj g'ecd'cpf 'twppkpi " dqctf u'htgg'qh'hqug'kgo u.'f gdtku'cpf 'i tgcug0Hqmqy 'uchgv{ 'r tqegf w'gu'y j gp'tgr cktkpi 'c'xgj kerg0 Wug'vtg'eci gu'hqt'kphrcvki 'tvenicpf 'gs wkr o gpv'vtgu'kp'vj g'tgr ckt'uj qr 0Kf{ 'qw'o wuv'kphrcvg'c'vtg" kp'vj g'hgrf.'o cng'uwg' '{ qwt'g'kp'vj g'engct'cpf 'y cvej kpi 'vj g'tko 'f wtkpi 'kphrcvqp0Cny c{ u'uj w'qy p" xgj kergu'hqt'tgr cktu.'cf lwwo gpw.'cpf 'hwdtlecckp'cpf 'ugv'vj g'r ctnkpi 'dtcng0Cny c{ u'r'ceg'ej qemu" ctqwpf 'vj g'y j ggny j gp'r ctnkpi 'qp'unqr kpi 'uwthcegu0Cm'gs wkr o gpv'uwej 'cu'dwnf q| gtu.'hqtmkhu." dcej qgu'cpf 'tcevqtu'uj qwf 'j cxg'cm'drcf gu.'j qknu.'dwengvu.'ueqqr u.'gve0hgy gtgf 'vq'vj g'i tqwpf " dghqtg' '{ qw'y qtnlqp'vj go 0Kf{ 'qw'o wuv'y qtnlwpf gt'c'tckugf 'f wo r 'tvenidqf { . 'o cng'uwg'k'ku" mqengf 'kp'vj g'tckugf 'r qukkqp0Vj g'uco g'i qgu'hqt'y qtnkpi 'wpf gt'dwnf q| gt'drcf gu'cpf 'ectt{ cmi' emulpi 'i cvgu0Y j gp' '{ qwt'ghwgn'f q'uq'cy c{ 'htqo 'y grf kpi 'qr gtcvqpu'qt'o cej kpgt{ 'vj cv'etgcvgu" ur ctm0Uqr 'cm'gpi kpgu'kp'vj g'ctgc'cpf 'f qp'v'uo qng0Y j gpgxgt' '{ qwt'g'pqv'uwg'c'dqvw'uchgv{ " r tqegf w'gu'hqt'qr gtcvki 'qt'o ckpcckkpi " '{ qwt'xgj kerg.'cum' '{ qwt'uw'gtxkuqt0"



## Prevent Collisions: Drive Defensively

C'r t g x g p c d r g "e q m k u k q p . " c e e q t f l p i " v q " y j g ' P c v k q p c n U c h g v { " E q w p e k n ' k u ' \$ c " e q m k u k q p " k p " y j k e j " y j g " f t k x g t ' h k r g f " v q " f q " g x g t { y j k p i " t g c u q p c d r g " v q " c x q k f " k o } " V j g ' P c v k q p c n U c h g v { " E q w p e k n ' c f x k u g u " f t k x g t u " v q " h q m q y " y j g u g " u k o r r g " t w g u " h q t " r t g x g p v k p i " e q m k u k q p u 0 " }

## Recognize The Hazard

U e c p " y j g ' t q c f " c j g c f // v q " y j g ' p g z v { k p v g t u g e v k q p " k p " e k k g u . " q t " v q " y j g ' p g z v j k m ' q t " e w t x g " q p " y j g " j k i j y c { 0 E j g e n i y j g ' t c h h e " v q " y j g ' u k f g " c p f " d g j k p f " d { " m q m k p i " k p " y j g ' t g c t x k g y " c p f " u k f g " o k t t q t u " g x g t { " h x g " u g e q p f u 0 T g e q i p k l p i " c " j c l c t f " k p " c f x c p e g " i k x g u { " q w " k o g " v q " c x q k f " k o " }

## Understand Defensive Driving Techniques

Q p e g { " q w " t g e q i p k l g " y j g ' r q u u k d r g " j c l c t f . " w u g " { q w t " n p q y r g f i g " q h " f g h g p u k x g " f t k x k p i " r t l p e k r n g u " v q " e j q q u g " y j g " d g u v " y c { " v q " c x q k f " c " e q m k u k q p " k p " g c e j " u k w c v k q p 0 " }

## Act Correctly and In Time

C h g t { " q w x g " e j q u g p " y j g " d g u v " f g h g p u g " c i c k p u v " j c l c t f . " c n g " e q t t g e v " c e v k q p " k p " k o g " v q " c x q k f " c " e q m k u k q p 0 V j k u " k u " y j g t g " { q w t " c r g t v p g u u " c p f " f t k x k p i " u n k m u " r c { " q h t 0 " }

## Driving Defensively

V j g ' P c v k q p c n U c h g v { " E q w p e k n ' f g h k p u " f g h g p u k x g " f t k x k p i " c u " \$ f t k x k p i " v q " u c x g " h x g u . " k o g " c p f " o q p g { " k p " u r k g " q h " y j g " e q p f k k q p u " c t q w p f " { q w " c p f " y j g " c e v k q p u " q h " q y j g t u 0 " }

## Defensive Driving Saves Lives

F t k x g t u " e c p " h g c t p " y j g ' p g e g u a c t { " u n k m u " v q " c x q k f " e q m k u k q p u 0 C r r t q z k o c v g n { " y q / y j k f u " q h " c m " e q m k u k q p u " c t g " e q p u k f g t g f " v q " j c x g " d g g p " r t g x g p c d r g 0 D { " f t k x k p i " f g h g p u k x g n { " e q m k u k q p u " c p f " f g c y u " e c p " d g " r t g x g p v g f 0 " }

## Defensive Driving Saves Time & Money

C x q k f k p i " e q m k u k q p u " u c x g u " { q w " k o g " m u v " f w g " v q " l p l w t { " c p f " e c t " f c o c i g 0 [ q w " m u c x g " o q p g { " y j c v " e q w f " d g " m u v " f w g " v q " l p l w t { . " o k u g f " y q t m c p f " e c t l r t q r g t v { " f c o c i g 0 " }

## Be A Safe Driver

D g " c y c t g " q h " y j g " h x g " e j c t c e v g t k u k e u " q h " f g h g p u k x g " f t k x k p i < n p q y r g f i g . " h q t g u k i j v . " c r g t v p g u u . " l w f i o g p v " c p f " u n k m 0 E j g e n i y j g ' t q c f " h q t " j c l c t f u " c p f " h g c t p " j q y " v q " t g c e v " v q " y j g o 0 M g g r " c " u c h g " f k u c p e g " d g w y g g p " { q w " c p f " y j g ' p g z v " f t k x g t 0 W u g " y j g ' r t q r g t " u k i p c n 0 D g " c r g t v " c p f " t g c f { " v q " t g c e v 0 " Q d g { " u r g g f " h k o k u . " t c h h e " t w g u " c p f " u k i p u 0 I k x g " { q w t u g h " r r g p v { " q h " k o g " v q " i g v " v q " { q w t " f g u k p c v k q p 0 " D g " r c v k g p v " c p f " e q w t v g q w u " v q " q y j g t " o q v q t k u u 0 P g x g t " c k i c v g 0 P g x g t " f t k x g " y j k g " k p v z k e c v g f 0 P g x g t " f t k x g " y j g p " u r g g r { . " k m ' q t " c p i t { 0 C f l w u v " { q w t " f t k x k p i " v q " y j g ' t q c f " e q p f k k q p u 0 " }



## Take It Easy Behind The Wheel

K'y qwr "dg'pleg'kh" {qw'eqwrf 'lwuv'unkr 'f tklpi 'cnqi gj gt 'dw'lp'cf fklqp'vq'f tklpi 'v'cpf 'htqo " y qtm" {qw'o c { 'cnq'j cxg'v'f tkg'y j kg'qp'y j g'lqd0Ci i tguukxg'dgj cxkqt'ecp'dg'c'r tguetkr vkp'hqt" f kucvgt'y j gp" {qw'tg'dgj kpf 'y j g'y j ggr0Vcng'y ku's wk 'v'kpf "qwl'h" {qw'tg'cp'ci i tguukxg'f tkggt0"

F q" {qw't { 'v' i gv'y j gtg" {qw'tg'i qkpi 'lp'y j g'uj qv'guv'r quukdr'vko gA"

F q" {qw'hki j v'y g'tchle." i gw'kpi 'cppq {gf 'y j gp'qy gt 'f tkggtu'o qxg'vq'umy n' {qt'dnem" {qw't'y c {A"

F q" {qw'qhgp'ur ggf 'wr 'cv' {gm'y 'hki j wA"

F q" {qw't { 'v' o czko k g" {qw't'wug'qh'vko g'd { 'uq'kpi 'y qtn'r tqdrgo u." gc'kpi . 'tgc'f kpi "qt" vcmkpi "qp'y j g'r j qpg'y j kg'f tklpi A"

F q" {qw'ew'r gqr ng'qh'cv'lpvgtugev'kpu'cpf 'gzkuA"

F q'r gqr ng'gxgt'vgn' {qw'y cv' {qw'uggo 'wr ug'v'y j gp'f tklpi A"

F q" {qw'cttkxg'cv' {qw't'f gu'kpc'kqp'hggnkpi 'ng' {gf 'wr . 'vgpug'qt'f tclpgf A"

Kl' {qw'cpuy gtgf " {gu'v'cp' {qh'y gug's wgu'kpu. 'o c {dg'ku'vko g'hqt'cp'cwkwf g'ej gen0"

Dgj cxkqtu'hkg'y gug'ctg'f cpi gtqwu'v' {qw'cpf 'v'q'y gt'f tkggtu'ctqwpf " {qw0"

## Modify Your Driving Attitude

Vt { 'y gug'cr r tqcej gu'v' o cng'f tklpi 'gcukgt'cpf 'uchgt<"

I kxg" {qwtughr' gto kukqp'v'lwuv'f tkggt0k'p'y j g'mpi 'twp." {qw'midg'j cr r kgt'cpf 'o qtg'r tqf wv'kxg'kh' {qw'lwuv'tgrcz0"

Nkuvp'v' tgrczkpi 'o wule'lpugcf 'qh'y g'f ckn' {f kucvgt'pgy u0O cng'c'eqpuekqu'ghhqt'v'v'cxqkf "

v'kri cvkpi . 'rcpg'ej cpi gu' o cnkpi 'i guwtu'gt'lpuwkpi 'qy gt'f tkggtu0Ugwrg'f qy p'd { 'v'cnkpi 'ugxgtcn' umy . 'f ggr'dtgc'y u0Tgo go dgt'y cv' {qw'qpn' 'j cxg'eqpvtqr'qh' {qw't'qy p'dgj cxkqt. 'pqv'y j g'dgj cxkqt' qh'qy gtu0I kxg" {qwtughr'c'hkrg'gzv'c'vko g'v' i gv'y j gtg" {qw'tg'i qkpi . 'uq" {qw'j cxg'qpg'rgu'tgcuaq" v'q'dg'ci i tguukxg'qp'y j g'tqcf0"

## Alcohol And Other Drugs Spell Trouble On And Off The Job

[ qw'ctgcf { 'npqy 'y cv'wukpi 'creqj qn'cpf 'qy gt'f twi u'qp'y j g'lqd'chgew" {qw'tcdk'v' {v' " uweeguuhwm' "cpf 'uchgn' 'f q" {qw't'ld0P qv'qpn' 'f q" {qw'tkum'r gtuqpcn'kplw { 'qt'f gc'y = {qw'gpf cpi gt" qy gtu. 'f q'uj qf f { 'y qtn'cpf 'y kn'hkng' {dg'hk'gf 'kh' {qw't'wrg'xkuq't'npqy u' {qw'tg'w'pf gt'y j g" kphw'peg'qh'creqj qn'qt'f twi u0"

Y j cv' {qw'o c { 'pqv'npqy 'ku'y cv'creqj qn'cpf 'qy gt'f twi u'y j gp'wug'f 'qh'h'y j g'lqd'ecp'cnq'ecwug'y j g" uco g'ugt'kqu'eqpugs w'pegu0F t'kpnkpi 'creqj qn'qt'wukpi 'f twi u'chgt'y qtn'ecp'hc'xg' {qw'ko r cktgf " y j g'pgz'v'f c { 'd { 'ecwukpi 'v'ktgf pguu. 'uj cnkpguu. 'hqi g'hw'pguu. 'ectgrguupguu. 'f gj {f tcvkqp. 'kttkcdk'v' . " j gcfcej gu'cpf 'ugpuk'x'k'v' {v'q'p'kug'cpf 'hki j v0F twi "qt'creqj qn'wug'y j g'pli j v'dghqtg'ecp'ch'gev' {qw't" cvg'p'kqp'ur cp. 'lw' i o gpv'cpf 'tgh'gz gu0K'f kuwtdu' {qw't'urggr 'tj { y j o u'v'q'y cv' {qw'tg'p'qv'tguvgf 'y j g" pgz'v'f c {0J qy 'y qwr " {qw'hkng'v'q'y qtn'qp'c'uech'qrf 'y cv'y cu'r w'w' 'd { 'uqo g'qpg'y kj "dcf " lw' i o gpv'cpf 'c'uj qv'cv'g'p'kqp'ur cpA'Kl' {qw'u'wrg'ev'y cv'uqo g'qpg'cv'y qtn'iku'dgkpi 'ch'gevgf 'd { " creqj qn'qt'qy gt'f twi u. {qw'tg'p'qv'f qkpi 'cp {qpg'c'h'xqt'd { 'ki p'qtkpi 'y j g'r tqdrgo 0Ngv' {qw't" uwr g'xkuq't'npqy 0Tgo go dgt. " {qw'ecp'h'ggr'uqdg't'qt'ut'cki j v'cpf 'u'k'ndj cxg'gpqwi j "creqj qn'qt" ej go kecni'lp' {qw't'dqf { 'v'q'ch'gev' {qw't'ld'r gthqto c'peg'cpf 'r w' {qw'cpf 'qy gtu'cv'tkum0"

"

"



## HYDROPLANING

Vj g'wpr tgf levdrg'y gc'y gt'y g'xg'j cf 'y ku' { gct'o cngu'o g'y qtt { 'cdqwl'j qy 'f tkxkpi 'eqpf kxkpu' ecp'ej cpi g'xgt { 's wlem' { 0Qpg'o clqt 'eqpegtp'ku'y g'y c { 'uqo g'f tkxgtu'f q'pqv'tgur qpf 'y j gp' f tkxkpi 'kp'y gv'y gc'y gt.'tguwnkpi 'kp'c'eqpf kxkpu'ecmgf '\$j { f tqr ncpkpi 0\$"

J { f tqr ncpkpi 'qeewtu'y j gp' { qwt'vktgu'iqug'eqpvev'y kj 'y g'tqcf 'cpf 'cewcm' { 'tkf g'qp'c'rc { gt'qh' y cvgt'dgw ggp'y g'vktgu'cpf 'y g'tqcf 0l qw'o c { 'pqv'tgcrk' g'kx'j cr r gpkpi 'wpvkn' { qw't { 'vq' o cpgwxgt'cpf 'f kueqxt' { qwt'g'pqv'kp'eqpvtqn'qh' { qwt'xgj keng0"

Ceeqtf kpi 'vq'y g'P cvkqpcn'Uchgv' 'Eqwpekn'vq'c'egtckp'gzvgpv' { qw'ctg'j { f tqr ncpkpi 'lwuv'cdqwl' gxgt { 'vko g' { qw'f tkxg'kp'y g'tckp0Vj g'o qtg'y cvgt'qp'y g'tqcf . 'y g'rguu'o qkuwtg'ecp'dg'f kuuk cvgf " d { 'y g'tgcf 'qh'y g'vktg0Vj g'o qtg'o qkuwtg'y cv'dwkv u'wr 'kp'htqp'v'qh'y g'vktg. 'y g'j k j gt'y g'tkum'qh' j { f tqr ncpkpi 'cpf 'j cxkpi 'c'eqnkukqp0"

Vj gtg'ku'cnuq'c'i tgcvg'tkum'qh'j { f tqr ncpkpi 'f wtkpi 'y g'htuv'tckp'chgt'cp'gzvgpf gf 'f t { 'ur gm'cu'c' tguwn'qh'y g'unkr r gt { 'dwkv wr 'qh'i tko g'htqo 'cwqo qdkg'qk'cpf 'i tgcug0Qy gt'hcevtu.'y j kej 'o c { " eqpvtkdwg'vq'j { f tqr ncpkpi . 'kpenw' g'y qtp'vktgu'y kj 'r qqt'tgcf 'cpf 'twu'kp'y g'tqcf 'ecwugf 'd { " pqto cn'tchke'r cwgtpu0"

Vj g'o clqt'ecwug'qh'j { f tqr ncpkpi . 'j qy gxgt.'ku'ur ggf 0Kko 'uwtg' { qwxg'pqv'egf 'cp'kpetgcug'kp' eqnkukpu'y j gp'k'tckpu0Hqt'y j cvxgt'tgcuqp.'r gqr ng'j cxg'c'v'gpf gpe { 'vq'f tkxg'vqq'hcuv'ht'y g' gzknkpi 'eqpf kxkpu'cpf 'y g { 'f qp)'o ckpvckp'cp'cf gs wcv'f kncpeg'dgw ggp'xgj kengu0"

Ki' { qwt'xgj keng'f qgu'dgi kp'vq'j { f tqr ncpkpi . 'v { 'vq'tgo ckp'ecm . 'cng' { qwt'hqqv'qh'qh'y g'ceegrgtcvt' cpf 'cxqkf 'uj ctr 'dtcnkpi 0O cp { 'f tkxgtu'vgpf 'vq'qxgttgcev'cpf 'j k'y g'dtcngu'j ctf . 'kpetgcukpi 'y g' ej cpegu'qh'i qkpi 'kpvc'unkf 0Ki' { qw'f q'unkf . 'uvgt'kp'y g'f kgevkqp'qh'y g'unkf 0"

Ki'y gtg'ku'xgj keng'kp'htqp'v'qh' { qw't { 'vq'hqmqy 'y g'tcemu'qh'y cv'ect0J qy gxgt.'eqpvkpwg'vq'unqy " f qy p'cpf 'kpetgcug' { qwt'hqmqy kpi 'f kncpeg0"

Tgo go dgt.'tgo ckpkpi 'ecm . 'wukpi 'eqo o qp'ugpug'cpf 'hpqy kpi 'y j cv'vq'f q'ecp'j grr' { qw'vq'tgcev' r tqr gtn' { 'cpf 'vq'r t'gxgpv'c'r qvgpv'cm' { 'ugt'kqu'u'o kuj cr 0'

"

"



## Using Hand Tools Safely

J cpf "vqnu"o c{ "dg" c" hco kkt r' ctv'qh{ qwt "gxgt{ f c{ "y qtnhkg0Hqt "y ku'tgcuqp. "k\ u" gcu{ "vq' hqti gv" vj cv' yj g{ "ecp" dg' f cpi gtqwu' kh' wugf "cpf "o clp' clp' g' f "ko r tqr gtn{ 0Hqt "gzco r ng. "c' uko r ng" uetgy f tkxgt "ecp" urk' "cpf "ecwug" c' r' wpewt g' y qwpf "cpf "c' etcengf "qt "nqqug" j gcf "qp" c' j co o gt "ecp" h{ "qh" cpf "j k" { qw' qt "c' d{ ucpf gt0Mp qy "cpf "r tceveg" yj gug' uchgv{ "t wgu' hqt" j cpf "vqnu0

É Wug' yj g' tki j v' vqnu' hqt "y g' lqd' cpf "o cng' uwt g' k\ u' yj g' eqttge v' uk g' hqt "y g' lqd0Y j gp" { qw' wug' c' y tgpej "cu" c' j co o gt. "qt" c' "npk' g' cu" c' uetgy f tkxgt. " { qw' tku' f co ci kpi "y g' vqnu' yj g' o cvgtkcn{ qwt g' y qtnkpi "qp" cpf " { qwtugr0

É Mggr " { qwt "vqnu' kpi" i qqf "y qtnkpi "qtf gt0C "engcp. "uj ctr "vqnu' ku' uchg" vqnu' 0C "vqnu' yj kpi "c" i tgcuf "j cpf ng" qt "f wne' wwkpi "uwt hceg" ecp" urk' "cpf "ecwug' kplwt { 0

É Ngctp' yj g' eqttge v' y c{ "vq' wug" { qwt "vqnu' 0C uni' qy "vq' wug' pgy "qt "wphco kkt "vqnu' /pgxgt" cuuwo g" { qw' npqy "j qy 0

É P gxgt "o qf kh{ "c" vqnu' v' kpetgcug' ku' hgxgtci g' qt "hqteg0

É Y gct "y g' r tqr gt "r tqvge' kxg" gs wkr o gpv' hqt "y g' lqd. "uwej "cu" o guj "i nq' xgu. "c' hgc' yj gt "cr tqp" cpf "ungxg" i wctf u' y j gp' wukpi "hpk' xgu0

É Hqnuqy "eqo o qp/ugpug' vqnu' t wgu' uwej "cu" <Cny c{ u' ew' cy c{ "htqo " { qwtugr h' r wni' qp" c" y tgpej . "f qp" r' wuj "k0

É Wug' vqnu' yj kpi "cy ctgpgu" cpf "r cvk' gpeg0

É P gxgt "j qtug' ctqwpf "qt" f c{ f tgc o "y j krg' wukpi "vqnu' 0

É Uqtg' vqnu' kpi "c" engcp. "ft { "r nceg' v' hnggr "y go "htgg' htqo "t wuv. "i tgcug' cpf "f wuv0

É Ectt { "vqnu' yj kpi "uj ctr "r ctu' r qk' p' g' f "f qy p" cpf "cy c{ "htqo " { qw0

"

"



## Using Powder-Actuated Tools Safely

Rqy f gt/cewcvgf "vqnu"ecp"o cng" { qwt'y qtnlgculgt. "dw"vj gug"vqnu"ctg"cu"fcpi gtqwu"cu"hcfc gf " i wpu0Vj ku"ku'y j { " { qw'o wuv'dg"ur gekm { "tclpgf "cpf "egt"vkgf "vq"vug"vj go 0C"r qy f gt/cewcvgf " vqnu"vugu"e"r qy f gt"ej cti g"vj g'y c { "c"i wp"uj qqvu"e"dwng0K\$uj qqvu"e"hcwvpgt"qt"uwf "kpq"j ctf " uwthcegu"uwej "cu"eqpetgvg. "dtlem"qt"uvgn0Nkng"dwngvu. "uwf u"lo r tqr gtn { "uj qv"ecp"lplwtg"qt"nkm" y qtngtu0Vj g"r qy gt"hcfc u"ht"r qy f gt/cewcvgf "vqnu"ctg"guugpvkcm { "drcpniectvtf i gu0Vj g { "g" eqnqt"eqf gf "hqt"r qy gt"rgxgr0Cm"r qy f gt/cewcvgf "vqnu"ctg"gs wkr r gf "y kj "ur gekn"i wctf u"cpf " o w | rg"hwkpi u"vq"nggr " { qw"htqo "i gwkpi "j wtv'd { "c"tkeqej gwkpi "uwf "qt"ej kr u"qh"hn { kpi "o cuqpt { 0 Vj g"vqnu"y qp"vhtg"y kj qw"uwej "i wctf u0"

### Know and follow these safety rules for using powder-actuated tools:

Cny c { u"tgcf "cpf "hmqy "vj g'o cpwhcewtgt)u"y ctpkpi u. "tgeqo o gpf cvkqpu"cpf "r tqegf wtu0Cny c { u" vgc"vj g"vqnu"cu"kh"ky gtg"e"hcfc gf "i wp0P gxgt"r w { qwt"j cpf "qxtg"vj g'o w | rg. "f tqr "vj g"vqnu"qt" r qkp"v"kv"cv"cp { qpgoCny c { u"wpmqf "vj g"vqnu"vq"t"cpur qt"v"qt"uvtg"k0Mggr "vj g"vqnu"wpmqf gf "wpk"i { qwt"gt"tgcf { "vq"ftkxg"e"uwf 0P gxgt"rgcxg"kv"wpwvpgf gf "y j gp"kv"u"hcfc gf 0Nkng"e"i wp. "r qy f gt/cewcvgf "vqnu"cu"e"nlen0Dtceg" { qwtugr"y j gp"wukpi "kv"gur gekm { "y j gp"qp"rcf fgtu"qt"uechhqr u0 P gxgt"vug"e"r qy f gt/cewcvgf "vqnu"kp"cp"gzr nqukxg"qt"hc o o cdrng"ctgc0Dghqtg"wukpi "vj g"vqnu" kpur gev"ku0O cng"uwtg"kv"u"wpf co ci gf "cpf "vj cv"vj g"dcttgriku"wpqdutwvvgf 0Cny c { u"y gct"g { g"cpf " j gctkpi "r tqvgevkqp"y j gp"wukpi "vj ku"v { r g"qh"vqnu"0Dghqtg"hcfc kpi "vj g"vqnu"cn"y c { u"ej gem"vj cv"vj g" ej co dgt "ku"ergcp0Cny c { u"hmqy "vj g'o cpwhcewtgt)u"lpustwvqpu"vq"ugrgev"vj g"eqttgev"r qy gt"hcfc " hqt"vj g'o cvgtkcn" { qwtg"htkpi "kpq0Dghqtg"wukpi "vj g"vqnu"vgu"ftkxg"e"hcwvpgt"y kj "c"j co o gt"vq" f qwdrg/ej gem"vj cv"vj g"uwthceg"ku"tgcm { "vj g"eqpetgvg"qt"uvgn"uwthceg" { qw"vj kpnik"ku0Uwf u" ceekf gpvcm { "htgf "kpq"y qqf. "r ruvgtdqctf. "rcv" "qt"r ruvgt"y kn"i q"tki j v"vj tqwi j "vj g'o cvgtkcn"cpf " eqo g"qw"vj g"qy gt"ukf g"y kj "vj g"htteg"qh"e"dwng0O cng"uwtg"pq"qpg"ku"y qtnkpi "dgi kpf " { qwt" o cvgtkcn0Cxqkf "htkpi "kpq"dtkwrg"o cvgtkcn. "uwej "cu"i ruu"dtlem. "vkr"qt"etcengf "eqpetgvg"qt" uvqpg. "y j lej "ctg"rkngn { "vq"uj cvgt"cpf "lplwtg" { qw0Vq"ftkxg"e"uwf. "r tguu"vj g"vqnu"htk o n { "ci clpuv"vj g" uwthceg"cv"tki j v"cp"i ngu0Htg"uwf u"y gm"cy c { "htqo "vj g"gf i g"qh"vj g"uwthceg"qt"cp { "j qrgu"// "cv"hgcu"e" j cth/kpej "hqt"uvgn"cpf "vj tgg"lpej gu"ht"eqpetgvg0K"vj g"vqnu"o kuhk"gu. "nggr "j qrf kpi "kv"htk o n { " ci clpuv"vj g"uwthceg"ht"52"ugeqpf u. "uq"vj cv"vj g"hcwm { "ectvtf i g"ku"rguu"rkngn { "vq"gzr nqf g. "cpf "vj gp" ectghwm { "tgo qxg"vj g"hcfc 0Vj g"hcwm { "ectvtf i g"uj qwf "dg"r w"lp"y cvgt0Engcp"cpf "o clpvc"p { qwt" vqnu"ceeqtf kpi "vq"lpustwvqpu"cpf "vug"qp"n { "hcevqt { "tgr rcego gpv"r ctu0"

"

"



## Working Around And Operating Heavy Equipment Safely

J gcx { "gs wkr o gpv'ku'dqj 'r qy gthw'cpf 'f cpi gtqwu.'dqj 'hqt'yj g'qr gtcvqt'cpf 'hqt'yj qug'y j q'y qtni' ctqwpf 'k0K'ko r qtcv'v'j cv' { qw'npqy 'y g'uchgv' 'r tgecw'kpu'v'q'cng'y j gp'y qtnkpi 'y kj 'cpf " ctqwpf "j gcx { "gs wkr o gpv'uej 'cu'f wo r 't'wemu.'htqp'v'gpf 'h'cf gtu.'etcpgu.'tcevqtu'cpf 'ego gpv' t'wemu0"

## Safety Rules For Heavy Equipment Operators

Y j gp' { qw'qr gtcv'j gcx { "gs wkr o gpv.'cny c { u'ej gen'ij g'dtcngu.'uvggtkpi 'cpf 'qvj gt'eqpvtqnu'dghqtg" uxtv'kpi 'y j g'gpi kpg0Dghqtg' { qw'uctv'wr . 'o cng'uwg'p'q'apg'ku'pgct' { qwt'gs wkr o gpv0Vj g'uchguv' y c { "q'f q'yj ku'ku'v'y cmi'ctqwpf " { qwt'xgj keng0Cny c { u'y gct'yj g'tki j v'r gtuqpcn'r tqv'v'xg" gs wkr o gpv'uej 'cu'uchgv' 'i'cuugu'cpf 'c'j ctf 'j cv'y j gp'qr gtcv'kpi 'j gcx { "gs wkr o gpv0Cny c { u'y gct" { qwt'uchgv' 'dgn0Nqy gt'dwengv.'uj qxgn'qt 'f kr r gtu'ugv'yj g'r ctnkpi 'dtcng'='cpf 'uj w'qhh'yj g'gpi kpg" y j gp'r ctnkpi " { qwt'o cej kpg0Tgukuv'yj g'vgo r v'v'q'v'q'wo r 'qhh' { qwt'o cej kpg'='kpuv'cf . 'wug'yj g" j cpf 'j qrf u.'tcku'cpf 'uvgr u0Dg'uwg'v'q'nggr 'yj gug'ctgcu'engcp'cpf 'htgg'htqo 'i' tgcug0Cny c { u'uvqr " yj g'gpi kpg'dghqtg'ndt'kcv'kpi 'qt'y qtnkpi 'qp'c'o cej kpg0Cpf 'o cng'uwg'cni'uchgv' 'i' wctf u'ctg'kp" r n'eg0C'xqkf 'dcen'kpi 'wr 'j gcx { "gs wkr o gpv'wprgu'ku'cduq'nwgn' 'pgeguuct { 0Ej gen'ij g" uwt'qwpf kpi 'ctgc'ht'qdu'cengu'dghqtg'dgi kppkpi 'cp'qr gtcv'kpp0M'eggr 'qvj gt'xgj kengv.'o cvgtkcu." gs wkr o gpv'cpf 'r gqr ng'qw'qh'ctgcu'y j gtg'j gcx { "gs wkr o gpv'ku'qr gtcv'kpi 0O cng'uwg' { qwt'o kttqtu" ctg'cpi ng'v'q'tgf w'eg'drkpf 'ur qw0Ej gen' { qwt'tgxgtug'cm'to 'dghqtg'qr gtcv'kpp0K' { qwt'g'wpcdr'v'q" ugg'dgj kpf " { qwt'o cej kpg.'wug'c'r gtuq'p'qp'yj g'i tqwpf 'cu'c'Sur qwgt'\$'v'j gr 'f k'gev' { qw'cpf 'h'qmi' hqt'qdu'cengu0Qpn' 'wug'gs wkr o gpv' { qwt'g'tc'kpgf 'v'q'wug0Dg'ho k'kt'y kj 'y j g'ho kcv'kpu'qh' { qwt' gs wkr o gpv0P g'xgt'cuwo g' { qwt'r cvj 'ku'engct'k' { qw'ecp'v'ugg'k0"

## Safety Rules For working Around Heavy Equipment

M'eggr 'engct'qh'o qxlkpi 'gs wkr o gpv0P g'xgt'cuwo g'yj g'qr gtcvqt'npqy u'y j gtg' { qw'ctg'qt'y j gtg' { qwt'g'i qkpi 0"

M'eggr 'cp'g' { g'qw'ht' 'o qxlkpi 'gs wkr o gpv'cv'cni'k'o gu0"

Y cvej 'qw'ht' 'cpf 'uvc' { 'engct'qh'r k'ej 'r qkpu.'gct'y / o qxlkpi 'gs wkr o gpv'cpf 'etcpgu0"

K' { qw'o wuv'y cmi'ctqwpf 'c'r k'eg'qh'j gcx { "gs wkr o gpv.'cngt'v'yj g'qr gtcvqt'v'q'uvqr 'y j g'o cej kpg" dghqtg'i qkpi 'd { 0"

Cny c { u'uv' { "qw'ht'qo 'w'pf gt'h'cf u'qp'etcpgu'qt'j qk'w' / g'xgp'k'k'o gcpu'v'cnkpi 'y j g'upi 'y c { " ctqwpf 0"

Cxqkf 'y cmi'kpi 'dgj kpf 'c'r k'eg'qh'gs wkr o gpv'yj cv'u'dcen'kpi 'wr 0 [ qw'eqw'f 'v'kr 'cpf 'hcn0P g'xgt" y cmi'dgukf g'o qxlkpi 'gs wkr o gpv.'tkf g'qp'ku'tw'K3kpi 'dqctf 'qt'f t'cy d'ct0Vj g'gs wkr o gpv'eqw'f " urkf g.'wo 'qt'yj g'h'cf 'eqw'f 'uj k'k0"

P g'xgt'tkf g'qp'v'qr 'qh'c't'wen'h'cf gf 'y kj 'o cuqpt { 'dm'emu'qt'qvj gt'o cvgtkcu'yj cv'eqw'f 'uj k'h'cpf " kplwtg' { qw0"

K' { qw'g'y qtnkpi 'qp'r qtcv'ng'uci kpi . 'uech'qrf u.'qt'r n'v'ht'o u.'i g'v'qhh'yj k'ng'yj g'o cej kpg'ku'dgkpi " o qxgf 0"

"

"



## Preventing Forklift Accidents

Y qtnkpi 'uchgn' y kj 'cpf' ctqwpf 'hqtmkhu' ku'c' y q/ y c { 'utggv' Qr gtcvqtu'pggf 'v' 'cng' r tgecwkpupu' cpf 'r gf gwtkcpu'pggf 'v' dg'cngt'v'cpf 'uvc { 'qww'qh'v'j g'y c { 'kp' qtf gt 'v' r tngxgpv'ceekf gpwu' }

**Forklift Dangers** < 'kplwtkgu'v' Rgf gwtkcpu. 'Eqmkukapu. 'Hcnkpi 'Nqcf u. 'cpf 'Vkr r kpi 'Qxgt' "

## Safety Rules for Operators

I gv'tckpkipi 'qp'j qy 'v'qr gtcv'v'j g' hqtmkhu'0"

Cny c { u'y gct' { qwt'uchgv' 'dgn'cpf 'j' ctf 'j' cv'0"

Mggr ' { qwt'j cpf u'cpf 'hggv'kpukf g'y g'ecd0"

Cny c { u'ej genlht' r gf gwtkcpu'0"

Kpur gev'v'j g' hqtmkhu'f ckn' 'cpf 'tgr qtv'cp { 'r tqdngo u'0"

O cng'utw'g'r cngw'ctg'y gml'ucengf 'cpf 'ugewt gf 0"

Mggr 'mqcf u'egpvgf 'v' 'cxqkf 'mqkpi 'dcnpeg0"

Mggr 'mqcf u'my 'v' 'v'j g'i tqwpf 'y j gp'o qxkpi //pq'o qtg'v'j cp'32'kpej gu'j ki j 0"

O cng'gz'v'c'v'kr u'kpugcf 'qh'qxtmqcf kpi 0"

Mpqy 'v'j g'ecr cek' { 'qh'v'j g' hqtmkhu'v'cpf 'uvc { 'y kj kp'v'j g'mqcf 'rko k'0"

Wug'c' hqtmkhu'qpn' 'hqt'ku'kpvgf gf 'r wr qug//ku'pqv'c'o gcpu'qh'v'c'pur qtv'v'kp'0"

O cng'utw'g'y g' hqtmkhu' { qwt'g'wpmqcf kpi 'j cu'dggp'ugewt gf 'v' r tngxgpv'o qxgo gpv'f wtkpi 'wpmqcf kpi 0"

O cng'utw'g'mqcf u'f qp'v'qduwv' { qwt'xkgy 0"

Wug'gz'v'go g'ecwkp'v'j gp'wtpkpi 0"

O qxg'umy n' 'y j gp'qp'y gv'utw'hegu'0"

Mggr ' { qwt' hqtmkhu'kp' i qqf 'y qtnkpi 'qtf gt 0"

Cny c { u'r ctnkqp'c' hcv'utw'heg'cy c { 'h'qo 'v'chhe'cpf 'ugv'v'j g'r ctnkpi 'd'cng'0"

P gxgt' i kxg'r gqr ng'c' t'kf g'qp'v'j g' hqtmkhu'0"

Uqwpf ' { qwt'j qtp'cv'kpvgtugev'kpup'0"

Cny c { u'my gt' hqtmu'v'v'j g'i tqwpf 'y j gp'r ctnkpi 0"

Uchgv' 'T wgu' hqt' Rgf gwtkcpu' "

Y qtnkpi' f guki pcvgf 'ctgcu'qpn' 0"

Cxqkf 'uj qtvewu'v'j tqwi j 'v'chhe'ctgcu'0"

P gxgt' y cm'w'pf gt'v'j g'tckugf 'mqcf 'qh'c' hqtmkhu'0"

Uqr 'cpf 'mqm'dqv'j 'y c { u'cv'kpvgtugev'kpup'0"

Uc { 'erget' y j gp'c' hqtmkhu'ku' d'cenkpi 'wr 'qt' wtpkpi 0"

Y cvej 'qww'v' { qw'f qp'v'v'kr 'qp'v'j g'my gtgf 'hqtmu'qh'c' u'qr r gf 'hqtmkhu'0"

Rc { 'cwgp'v'kp'v'v'j y j cv'u' i qkpi 'qp'ctqwpf ' { qw'cv'cm'v'ko gu'0"

Nkugp' hqt'j qtpu'cpf 'mqm'ht' h'ruj kpi 'rki j u'0"

Ngv'v'j g' hqtmkhu'qr gtcvqt' hpqy 'y j gp'cpf 'y j gtg' { qwt'g'y qtnkpi 'kp'cp'ctgc'0"

P gxgt'j ke j 'c' t'kf g'qp'c' hqtmkhu'0"

P gxgt' gpi ci g'kp'j qtugr n' { 'ctqwpf 'c' hqtmkhu'0"

"

"



## CATCH!

**There are three basic categories of fall protection devices to help keep you safe when you're working at heights ... be sure you use them!**

"

**GUARDRAILS**/"i gpgtcm{ '64/kpej gu'j ki j 'y kj 'c'o kf /tckl'qt'qvj gt'uchgv{ 'hgcwtg'r t'gxgpv'{'qw' h'qo 'hcnkpi 'vj tqwi j 0I wctf tcku'ctg'o cf g'v'y kj ucpf "eqpukf gtcdrng'hqteg0Gxgp'uq. 'kx'u'pqv'c" i qqf 'kf gc'v'igcp'ci ckpuv'y go #"

"

**SAFETY NETS**/"wuwcm{ 'o cf g'qh'tqr g'o guj . 'vj g{ 'ctg'f guki pgf 'v'g'utqpi "gpqwi j 'v'ecvej " cpf 'j qrf 'c'r gtuqp'qh'eqpukf gtcdrng'uk g'cpf 'y gli j #J qy gxgt. 'vj g{ 'o wuv'dg'kpur gev'f 'tgi wactn{ 0"

"

**PERSONAL FALL ARREST SYSTEM**/"'c'y qtngt'u'j ctpguu'\*qt'c'dqf { 'dgnw'y kj 'c'rhknpg" cwcej gf "v'cp'cpej qt0Vj g'cpej qt'o wuv'dg'cdng'v'y kj ucpf '7222'r qwpf u'qh'hqteg."cpf 'vj g" rhknpg'o wuv'dg'o cf g'qh'y gddkpi "qt'j cxg'c'y kg'eqtg'h'k'o c{ "eqpcev'c'uj ctr 'gf i g0\*Qvj gty kug." k'ecp'dg'o cf g'v'uko r n{ 'f gegrgtcvg'c'hcm'hng'c'dwpi gg'eqtf 0"

"

**Always inspect your personal fall arrest equipment before using it! Check for:**

- Cuts, tears, abrasions, indications of weakening or deterioration
- Damage from fire, corrosion, mildew, etc.
- Undue stretching
- Broken connectors; other faulty parts
- Alterations or informal repairs



## Keys To Ladder Safety

Ncf fgtu'ecp'dg'c'i tgcvj gnr "qp'yj g'lqd0Vj g{ }g'uko r ng'vq'wug'cpf 'i gv'f qw'y j gtg'f{ qw'pggf "vq'dg0  
Cnj qwi j "rcf fgtu'ctg'wpeqo r necvgf "f gxlegu. "vj g{ "ecp'dg'f cpi gtqwu0ku'ko r qtvcpv'vq'npqy "cpf "  
hmqy "rcf fgt'uchgv'f "i wkf gnpgu0"

## Choose The Right Ladder For The Job

O cng'uwg'f{ qwt'rcf fgt'ku'utqpi "gpqwi j "cpf "mpj "gpqwi j "hqt'yj g'lqd0"  
Ej geniyj g'rcf fgt'u'f w{ "tckpi "cpf "f qp'g'zeggf "ku'ko ku0V{ r g'K'cp'kpf wutknl'rcf fgt. "j qrf u'47"  
ndu0V{ r g'KKj qrf u'wr "vq'447'r qwpf u0V{ r g'KK'vj g'j qwugj qrf "rcf fgt. "j qrf u'wr "vq'422'ndu0"  
Tgo go dgt "vq'eqpukf gt'yj g'y gki j v'qh'f{ qwt'vqnu'y j gp'ugrgevpj "c'rcf fgt0"  
Kf'f{ qw'y qtnictqwpf "grgevtlecny kgu'qt'r qy gt'hkpgu. "wug'c'y qqf gp'qt'pqpeqpf wexkg'hkdti nuu"  
rcf fgt. "pqv'o gvcf0"  
P gxgt'eqppgev'y q'uj qtv'rcf fgtu'vq'hqto "c'mpi "qpg0"

## Inspect Your Ladder Before You Use It

Ej genihqt'mqug'qt'dgpv'twpi u."etcengf "ukf g'tcku'qt'dgpv'qt'o ku'kpi "r ctu0O cng'uwg'yj g"  
ur tgcg'gtu'ecp'dg'mengf "kp'r meg'y j gp'qr gpgf 0O gvcnl'rcf fgtu'uj qwf "j cxg'r nu'ke'qt"  
twddgt'hggv'cpf "u'gr "eqxgtkpi u0Ej genihqt'qkicpf "i tgcug'qp'yj g'twpi u'y j lej "eqwf "ecwug"  
{ qw'vq'ur 0Tgr meg'o ku'kpi "r ctu'cpf "ki j v'gp'mqug'j ctf y ctg0Cxqkf "tgr cktkpi "o clqt"  
utwewtcnlf co ci g0kpu'gcf. "i gv'c'pgy "rcf fgt0O cng'uwg'yj g'u'gr u'ctg'y kf g'gpqwi j "hqt"  
{ qw'vq'ur tgcg'f{ qwt'hggv'hqt'dcnp'eg0"

## Set Up Your Ladder Carefully

Rrcg'f{ qwt'rcf fgt'qp'c'hko. "hgxgn'uwthceg'y kj "ku'hggv'r ctcngn'vq'yj g'y cml'ku'tgukpi "  
ci ckpu0"  
Wug'yj g'6/vq/n'rcf fgt'twrg<Ugv'yj g'dcug'qh'f{ qwt'rcf fgt'3'hqqv'cy c{ "h'qo "y j g'y cml'ht"  
gxgt{ "6'hggv'qh'rcf fgt'j gki j v0"  
Kp'dwu{ "ctgcu. "wug'c'dcttlecf g'vq'r t'gxgpv'eqnkukqpu0"  
Nqem'pgetd{ "f'qqu'yj cveqwf "qr gp'vqy ctf "f{ qw0"  
Cny c{ u'v'g'qh'f{ qwt'rcf fgt0Ncu'j "utcki j v'rcf fgtu'cv'yj g'vqr "cpf "y j g'dqwqo 0"  
Vj g'vqr "qh'c'utcki j v'rcf fgt'uj qwf "gzv'gp'f "5'hggv'dg{ qpf "ku'tgukpi "r qkpv0"  
Ectt{ "f{ qwt'rcf fgt'xgt'ecm{. "qt'wug'y q'r gqr ng//qpg'cv'gcej "gpf 0"

## Climb Cautiously

Hceg'yj g'rcf fgt'yj j gp'f{ qw'erko d'wr "qt'f qy p0"  
J qrf "qp'yj g'ukf g'tcku'y kj "dqy "j cpf u0"  
Ectt{ "qpn'f'pgeguuct{ "vqnu'qp'f{ qwt'dgn0"  
Wug'c'tqr g'vq'tckug'j gcxkgt'gs wkr o gpv0"  
P gxgt'qxgttgcej 0"  
Wug'yj g'\$dgn'dwemg\$'twrg0Cny c{ u'hgg'f{ qwt'dqf{ "egpvgtgf "dgw ggp'yj g'tcku0"  
Cny c{ u'y gct'c'uchgv'f{ "ctpgu'kh'f{ qwt'g'erko d'kpi "o qtg'yj cp'8'hggv'qh'v'yj g'i tqwpf 0"  
Cmqy "qpn'f'qpg'r'gtuqp'qp'c'rcf fgt'cv'c'ko g0"  
Y gct'uj qgu'y kj "pqpunkf "uqngu0"  
O cng'uwg'f{ qwt'j cpf u'ctg'f'f{ "cpf "h'gg'qh'i tgcug0"  
P gxgt'u'gr "qp'yj g'vqr "y q'twpi u'qh'c'rcf fgt0"  
P gxgt'wug'c'rcf fgt'hqt'cp{ yj kpi "qy gt'yj cp'ku'k'p'v'gp'gf "r wtr qug0"



## BATTERY SAFETY

Ky cu'cv'c'eqpxgpkpeg'uvqtg'pqv'qg'iqpi "ci q'y j gp'Kpqv'egf "vy q'i gpwgo gp't{ kpi "vq'lwo r/uvctv' c'ect0Cu'uqqp'cu'y g'ecdngu'y gtg'eqppgevgf "vq'y g'f gcf "dcwgt{ . 'k'dgi cp'vq'ur gy "uo qng0K{ gmgf " cv'y go "vq'f'ueqppge'v'y g'ecdngu'cpf "y gp'cf xkugf "y go "y cv'y gk'ecdng'eqppge'v'kpu'y gtg' kpeqttge'v0Qpg'qh'y g'i gpwgo gp'tgeqppgevgf "y g'ecdngu'cpf "y g'ect'uvctvgf "cm quv'ko o gf kcvgn{ 0" "

Qp'o { "y c{ "dcent'vq'y g'qh'leg. "Kng' v'y kpnkpi "cdqww'y g'kpek'gpv'cpf "y gp'tgo go dgtgf "y cv'Kj cf " tgc'f'cp'ct'veng"d{ "y g'P'cvkqpcn'Uchgv{ 'Eqwpek'icpf "cp'qti cpl'cvkqp'ecmgf "Rt'gxgpv'Drkpf'pguu" Co gtlec0Vj g'ct'veng'r tqxkf gf "uqwpf "cf xleg'y j gp'lwo r kpi /uvctv'kpi "c'f gcf "ect'dcwgt{ 0" "

Hku'v'qh'cm{"q'w'uj qwf "j cxg'ur nu'j /r tqqh'uchgv{ "i qi i ngu'cu'r ctv'qh{"qwt'tqcf ukf g"go gti gpe{ "nks0 [ qw'uj qwf "cny c{ u'y gct "y g'i qi i ngu'y j gpgxgt{"qwt'g'y qtnkpi "ctqwpf "y g'ect'dcwgt{ 0Dcwgt'kgu" r tqf weg'g'zr'nu'kxg'i cugu'cpf "y g'wug'qh'g{ g'r tqvge'v'kqp'ecp'r tgxgpv'kplwt'kgu'ltqo "dcwgt{ " h'ci o gpv'ucpf "ej go kcn'dwtpu'ltqo "dcwgt{ "cekf 0" "

Dghqtg{"q'w'dgi kp'vq'lwo r/uvctv'y g'ect. "o cng'uwg'y cv{"q'w<

- Á Tghgt'vq'y g'gy pgt'u'o cpwcn'ht'kpu'w'v'kpu'ltqo "y g'ect'o cpw'cewtgt0
- Á P'gxgt'cm'y "cp'qr gp'h'co g'qt'ur ct'm'pgct'y g'dcwgt{ 0Kp'cf f'k'kqp. "pgxgt'uo qng'c'eki ctgwg" pgct'y g'dcwgt{ 0

- Á O'cng'uwg'y g'ectu'f'q'pqv'v'q'we'j "gcej "cpf "pgxgt'ng'cxg'g'k'j gt'ect'kp'pgw'cni' gct0
- Á R'ceg'c'f'co r' 'tei "q'xgt'y g'dcwgt{ "xgpv'ecr u'k'h'y g'dcwgt{ "j cu'cp{ + "cpf "cwcej "y g'lwo r gt" ecdngu'kp'y g'hqmy kpi "qtf gt<

30' Enco r "c'r quk'xg'lwo r gt'ecdng' "o ctngf "tgf "qt" - + "vq'y g'r quk'xg" \* - + "vgo kpcn'qh'y g'f gcf " dcwgt{ 0

40' Enco r "y g'q'y gt'r quk'xg" \* - + "lwo r gt'ecdng'vq'y g'r quk'xg" \* - + "vgo kpcn'qh'y g'i q'qf "dcwgt{ 0

50' Enco r "y g'p'gi cv'xg'ecdng' "o ctngf "d'cent'qt/+ "vq'y g'p'gi cv'xg" \* - + "vgo kpcn'qh'y g'i q'qf "dcwgt{ 0

60' O'cng'y g'h'kpcn'eqppge'v'kqp" ) d'cent'qt / + "qp'y g'gpi kpg'dm'cent'qh'y g'uvcmgf "x'gj keng' "pqv'y g" pgi cv'xg'r quv'qp'y g'f gcf "dcwgt{ + "cpf "cy c{ "ltqo "cp{ "hwgn'kpgu. "wdkpi "qt'o q'xkpi "r ctu0

"

"

Ch'gt'ej genkpi "vq'o cng'uwg'cm'y g'eqppge'v'kpu'ctg'eqttge'v'cpf "h'to n{ 'kp'r meg. "uvctv'y g'x'gj keng" y k'y "y g'i q'qf "dcwgt{ /y gp'uvctv'y g'x'gj keng'y k'y "y g'f gcf "dcwgt{ 0T go q'xg'y g'ecdngu'kp'y g" tgxgtug'qtf gt'qh'eqppge'v'kpu'dgi kppkpi "d{ "h'ku'v'tgo q'xkpi "y g'ecdng'ltqo "y g'gpi kpg'dm'cent0

"

Hkpcn{ . 'h'dcwgt{ "cekf "f'qgu'ur nu'j "kp'vq{"qwt'g{ gu. "hwuj "ko o gf kcvgn{ "y k'y "y cvgt'cpf "uggn" o gf kcn'v'tgcvo gp'0Dcwgt{ "cekf "ku'gz'vgo gn{ "eqttqu'kxg'cpf "ecp'ecwug'r gto cpgpv'f'co ci g0

"

Y j g'y gt{"q'w'g'cv'j qo g'qt'y qtm'r ng'ug'tgo go dgt'y g'eqttge'v'r tqegf wtg'ht'ltwo r/uvctv'kpi "c" dcwgt{ 0[ q'w'eqwf "cxqkf "c'ugt'k'wu'kplwt{ "vq{"qwtug'h'qt "uqo g'qpg'g'nu'g0

"



## What To Do About Electrical Shocks and Burns

"

Cp"grgevtlecn'ij qen'lecp"ugxgtgn{ "dwt p" { qw"uwp" { qwt"o wuengu"cpf "pgtxgu"cpf "uqr" { qwt"j gctv"cpf " dtgc vj kpi OS wlenicevqp"kp"cp"grgevtlecn'go gti gpe{ "ecp"ucxg'hxgu0Dw'c"j cr j c| ctf "tgur qpug"ecp" f q'o qtg"j cto "vj cp"i qqf 0Dgeqo kpi "hco kktc'y kj "vj g'hqmjy kpi "tgur qpug'r tqegf wtu'y kn'o cng'kv" gcukgt'hqt" { qw'vq"vj kpm'ergctn{ "cpf "cev'f gekukxgn{ "h'cp"go gti gpe{ "qeewtu0"

## Responding to Electrical Shock

Vq'r tqgev" { qwtugrh'htqo "uj qem"wo "qhh'vj g'r qy gt"dghtg"vwej kpi "vj g'xlewo "qt"gs wkr o gpv0Ki" { qw'ecp"wo "qhh'vj g'r qy gt. "wug"c"pqp/eqpf wev kpi "vqqn'uwej "cu'c'f t { "y qqf gp"u'kem"vq"o qxg"vj g" r gtuqp<"vj gp"ecm'hqt"j grr 0O cng'uwg" { qw'f qp"veqo r rvg"c"ekewk'dgy ggp"vj g'uqwtg"cpf "vj g" i tqwpf 0Ki"vj g'xlewo "ku'vwej kpi "c'r qy gt"hpqg. "uc { "ergct"cpf "ecm'hqt"j grr 0Dghgtg'i kxkpi "cp { " vgcwo gpv"ej gen'ij g'xlewo ju'dtgc vj kpi "cpf "r wug0Ki'dtgc vj kpi "j cu'uqr r gf. "i kxg"ctv'hekn' tgur kcvkp0Ki" { qw'f qp"v'f gvev'c"j gctvdgc v. uctv'ERT"hi" { qw'xg'dggp"v'clpgf "vq" f q"uq0Continue CPR"wpv'kno gf lecn'j grr "c3 Vlxgu"qt"wpv'kij g'xlewo "dgi kpu'vq"dtgc vj g'qp"j ku'qt"j gt"qy p0"

"

## How Shock Happens

Grgevtlek{ "hqmjy u'vj g'gcukgu'r cvj "vq"vj g'i tqwpf 0Ki'y kn'hmjy "vj tqwi j "cp { "eqpf wev'xg"o cvgtkn" uwej "cu'y cvgt. "o gcn'egtvc'p"ej go lecn'uqnw'kpu"cpf "vj g"j wo cp"dqf { 0Ki" { qw'eqo g'lpvq"eqpcev" y kj "vj g'i tqwpf. " { qw'dgeqo g'r ctv'qh'cp"grgevtlecn'ekewk'cpf "ewtgpv'r cuugu"vj tqwi j " { qwt"dqf { ." ecwukpi "c"uj qen0Gxgp"cuo cm'uj qen'lecp"hn' { qw'h'k'r cuugu"vj tqwi j " { qwt"j gctv'cpf "wpi u0F ggr" kpgt'pcn'dwo u'ecp"cnq"qeewt0"

"

## Responding to Burns

"

Dwo u'uwhtg'gf "kp"grgevtlecn'ceekf gpw'o c { "chge v" { qwt"unkp. "o wuengu. "qti cpu"cpf "dqpgu0Vj g'htuv" j qwt"ku'etwekn'ht"v'gcv kpi "dwo u0Nqqm'hqt"y q'y qwpf u<"cp"gpvcpeg"cpf "gzk'dwtp0Vtgc v'o kpgt" dwtpu'vq"vj g'unkp'y kj "eqqrly cvgt"cpf "vj gp"eqxgt'k'y kj "c"ergcp. "f t { "emvj 0P gxgt"uug'qkpo gpv. " leg"qt"dwwgt"qp"cu'dwtp0Ugtqwu'dwo u'tgs wktg'ko o gf kcvg'o gf lecn'cwgpv'kqp0Ki"vj g'xlewo "i qgu'lpvq" uj qem'nggr "j ko "qt"j gt'h' kpi "f qy p'y kj "hggv'grgxcvgf "wpv'kij grr "cttkxgu0P gxgt"v { "vq'r wne'j cttgf" emvj kpi "qhh'qh'dwtpgf"unkp0"

"

## Think Before You Act

P q'o cwgt"y j cv'v' r g"qh'grgevtlecn'go gti gpe{ "eqphtqp w" { qw"cnj c { u'uqr "vq"pqv'eg"y j cv'u'i qkpi " qp"cpf "vj kpm'cdqw"cu'chg'r rcp"qh'cev'kqp0Cnj qwi j " { qwt"lpuk'pew'o c { "dg"vq'twuj "kp"cpf "i tcd"vj g" r gtuqp"y j q)u'dgkpi "uj qengf. "vj cv'v' r g"qh'cev'kqp"eqw'f "equv" { qw" { qwt"rhg0"

"

"

"



## Lockout/Tagout Is Serious Business

"

O cej kpgt { "qt"gs wkr o gpv'yj cv'uctu'w' "wpgzr gevgf n' "qt"tgrgcugu'uxqtgf "gpgti { "y j kg"uqo gqpg'ku" r gthqto kpi "o ckpgpcpeg"qt"tgr cktu'ecp"ecwug'ugtqwu'kplwt { 0Nqemqwhci qw'r tqegf wtgu'r tngxgpv' yj gug'v' r gu'qh'ceekf gpw'ltqo "j cr r gpkpi 0Cnj qwi j "qpn' "cwj qtk gf "go r m { ggu'ctg'r gto kwgf "v" r gthqto "hmenqww'r tqegf wtgu'cpf "v"tgo qxg'Ltqemu'cpf "ci u."cm'go r m { ggu'pggf "v"wpf gtucpf " mmenqww'cpf "ci qw'r tqegf wtgu0"

"

### What Is Lockout?

Nqemqww'o gcpu'r wwkpi "c"m'em'qp'c"o cej kpg"qt'r kgeg"qh'gs wkr o gpv'v'q"o cng'uwg'k'w'uc { u"qh'0' Grgextlecn"o gej cplecn'ej go lecn'yj gto cn"j { ftcwke."r pgwo ckle."tckug/y gki j v."rtguwtk gf "cpf " eqkrgf/ur tklpi "u { ugo u'o wuv'dg'pgwtcrk gf "hqt"uchgv' "f wtkpi "o ckpgpcpeg"cpf "tgr cktu0" C"m'emqww'f gxleg'ku"c"m'em"dm'em'qt"ej ckp'yj cv'ngrg u'c"uy ke j . "xcnkg"qt"ngxgt'kp'yj g"\$qhh'r quklqpo' Nqemqww'memu"o wuv'o gg'v'ur gekn'tgs wktgo gpw'cpf "o wuv'dg'kf gpw'k'gf "d { "yj g"pco g'qh'yj g'y qtngt " y j q"kpucm'cpf "tgo qxgu'yj go 0Qpn' "wug'memu'r tqxkf gf "d { " { qwt"go r m { gt "hqt"m'emqww'r wtr qugu0' P gxgt "wug'yj gug'memu'hqt"vqndqzgu."uqtci g'uj gf u'qt"qvj gt "wugu0"

"

### What Is Tagout?

Y j gp"gs wkr o gpv'ecp'v'dg'm'emgf "qww."k'o wuv'dg'vci i gf "qwy kj "c"ur gekn'vci "yj cv'y ctpu'y qtngtu" vq"pqv'uctv'w' "yj g"gs wkr o gpv'0C"vci "ku'p'v'c'r j { ulecn'tguetckp'0Vci u'o wuv'engctn' "ucvg<\$f q'pqv' qr gtcvg'qt"tgo qxg'yj ku'vci 0Vci u'o wuv'dg'r megf "qp"gej "j cpf rg."r wuj "dwwqp."ngxgt"qt"ektewk' dtgcngt"wugf "v"gpgti k g'yj g"gs wkr o gpv'0Vci u'o wuv'o gg'v'ur gekn'tgs wktgo gpw'cpf "uj qy "yj g" kf gpw'k' "qh'yj g'cwj qtk gf "go r m { gg'0Dqvj "m'em'cpf "ci u'o wuv'dg'utqpi "gpqwi j "v"r tngxgpv' wpcwj qtk gf "tgo qxcn'cpf "v"y kj ucpf "xctkqu'gpxktqpo gpv'neqpf kklqpu0"

### Restarting Equipment

Chgt'yj g'o ckpgpcpeg"qt"tgr ckt'y qtmku'eqo r ngvg."qpn' "yj g"uco g'cwj qtk gf "go r m { ggu'y j q" kpucm'gf "yj g'm'em'o c { "tgo qxg'cpf "tguetv'yj g"gs wkr o gpv'0Dghgtg'tguetkpi "yj g"gs wkr o gpv'c"

- Á O cng'uwg'cm'qvj gt "y qtngtu'ctg"c"uchg'f kucpeg"cy c { 0'
- Á Tgo qxg'vqnu'ltqo "yj g"gs wkr o gpv'0'
- Á Tgkpucm'o cej kpg'i wctf u0'
- Á P qvkh' "y qtngtu'yj cv'yj g'gpgti { "ku'tguvgtgf "cpf "yj g'o cej kpg'ku'y qtnkpi 0'

### Lockout Steps

K gpw'k' "cm'r ctu'qh'cp { "u { ugo u'yj cv'pggf "v"dg'uj w'f qy p0Hkpf "yj g'uy ke j gu."xcnkgu"qt"qvj gt" f gxlegu'yj cv'pggf "v"dg'm'emgf "qww0"

Vgm'go r m { ggu'yj cv'yj g"gs wkr o gpv'y kn'dg'm'emgf "qww'cpf "y j { 0"

Nqecvg'cm'r qy gt "uqwtegu."kpen'f kpi "uxqtgf "gpgti { "kp"ur tklpi u'qt"j { ftcwke"u { ugo u0P gwwtcrk g"" cm'r qy gt "cv'ku'uqwtg0F kueqppgev'grgextlekl'."dm'em'o qxgcdrg'r ctu'cpf "tgrgcug"qt"dm'em" ur tklpi "gpgti { 0'

F tckp"qt"dm'ggf "j { ftcwke"cpf "r pgwo ckle"hpgu0'

Nqy gt "uwur gpf gf "r ctu'v'q'tguv'r quklqpu0'

Nqemqww'cm'r qy gt "uqwtegu0Wug"c"m'em'f guki pcvgf "hqt"yj ku'r wtr qug0Gcej "y qtngt"uj qwf "j cxg"c" r gtupcn'm'em0"

Vguv'qr gtcv'kpi "eqpvtqnu0Vwtp"qp"cm'eqpvtqnu'v"o cng'uwg'yj g'r qy gt "f qgup'v'i q"qp0Vwtp"eqpvtqnu" dcm'v'q"\$qhh\$"

Rgthqto "pgeguet { "tgr cktu"qt"o ckpgpcpeg0"

"

Í "3; ; 7"RCTNC[ "K VGTP CVKQPCN"3852023"



# Save Your Sight -- Protect Your Eyes

G{g'r tqvgevqk'ku'y g'o quv'ko r qtcvpr'rtqvgevkxg'i gct'q'w'ecp'y gct0K'q'w'g'pqv'y gctkpi 'uchgv' i ruugu'qt'i qi i ngu'qp'y g'lqd."{q'w'g'tkunkpi 'r gto cpgrp'g{g'f co ci g'cpf "dnpf pguu0Vj kpn'cdq'w' cm'y g'y qtnicev'xk'ku'q'w'o c{ 'f q'gcej 'f c{ 'y c'v'ecp'ecwug'g{g'kplwt { <i tlpf kpi . "ucpf kpi . " dtwuj kpi . "ucy kpi . "f tknkpi . "dw'kpi . "j co o gtlkpi . "eww'kpi . "y grf kpi "cpf 'y qtnkpi 'y kj 'ej go kecn0C" ur gen'qh'f wuv'ln'kpi 'htqo 'c'r qy gt'ucpf gt. "tcxgnkpi 'cv'y g'ur ggf "qh'c'dwngv'ecp'ugxgtgn' 'cpf " r gto cpgrp'ln'kplwt'g'q'w'g'g0"

## Safety Glasses

K'q'w'ltqd'kpxk'ngu'j c| ctf u'htqo 'f wuv'ln'kpi 'qdlgew'qt'r ctv'engu'y cv'o c{ 'utkng'q'w'htqo 'kp' htqpv'q'w'uj q'w'f 'dg'wukpi 'uchgv' i ruugu0Vj g' 'o c{ 'h'q'ni'uko k'ct'v'q'pqto cn'utggv'y gct'i ruugu. " dw'y g'x'g'o cf g'qh'o wej 'utqpi gt'hpugu0Vj g'hpugu'qh'uchgv' i ruugu'ctg'ur gek'kecm'f'guki pgf " v'q'dg'ko r cev'tguk'cpv'cpf 'y g'htco gu'ctg'dw'k'v'nggr 'y g'hpugu'htqo 'dgkpi 'r wuj gf 'kp'v'q'q'w' " g{gu0' q'w'ecp'v'i gv'y ku'kpf 'qh'r tqvgevqk'htqo 'tgi wrt'r tguetr v'kp'i ruugu0"

## Safety Goggles

Uchgv' i qi i ngu'qh'ht'gh'gev'xg'r tqvgevqk'htqo 'ko r cev'ln'kpi 'r ctv'engu'eqo kpi 'htqo 'o cp{ " f k'htg'p'v'f k'gev'k'pu. 'hwo gu. "xcr qtu. "f wuv'cpf 'ej go kecn'ur ruuj gu0H'ht'v' ku't'gcuqp. "uchgv' i qi i ngu' uj q'w'f 'dg'y qtp'y j gp'i tlpf kpi . "ej kr r kpi . "tkxg'kpi "cpf 'y qtnkpi 'y kj 'y q'qf. "ej go kecn'cpf 'hwo gu0 C'uj kgrf 'y cv'k'u'upwi n' 'qp'q'w' 'h'ceg'cm'y g'y c{ 'ctqwpf "q'w'g' gu'ut'qwpf u'uchgv' i qi i ngu' D'gecwug'qh'y gkt'upwi 'hk'v'y g'uj kgrf u'qh'ucpf ctf 'uchgv' i qi i ngu'j cxg'xgp'v'k'v'kp'j q'ngu'v'q'nggr " y go 'htqo 'h'qi i kpi 'wr 0U'qo g'i qi i ngu'j cxg'j q'qf gf 'qt'lpf k'gev'xgp'v'k'v'kp'qr gp'kpi u'v'q'nggr 'q'w' y len'j c| ctf q'w'f wuv. "ej go kecn'ur ruuj gu'qt'o q'ngp'o cv'gt'k'cn0Vj gt'g'ctg'o cp{ 'ur gek'n'v'r gu'qh' uchgv' i qi i ngu'f'guki pgf 'h'qt'ur gek'ke'ldu0C'um'q'w' 'uwr gtx'kuqt'y j lej 'v'r g'qh'i qi i ngu'q'w'ltqd' tgs v'kt'gu0"

## Care and Use of Your Safety Eyewear

Wug'y g'tki j v'g{gy gct'ht'q'w'ltqd0K'q'w'kpf "q'w'g'g'r tqvgevqk'w'peqo h'qt'cdng. "v'c'f k'htg'p'v' uk'g'qt'uv'ng0T'go go dgt'v'q'tgi wrtn'k'pur gev'q'w'g'g'r tqvgevqk'gs v'kr o gpv'ht'y gct'cpf " f co ci g. "uwej "cu'uetcevj gu'cpf 'etcem0P gxgt'y gct'y qtp. "f co ci gf "qt'q'y gty kug'f gh'gev'xg' gs v'kr o gpv0M'ggr "q'w'gs v'kr o gpv'ergcp'cee'qtf kpi "v'q'y g'o cpw'cewt'gt'u'k'p'ut'w'v'k'pu'cpf 'u'q'g'k' kp'c'ergcp. "f t{ 'r n'eg0' q'w'o c{ 'pggf "v'q'y gct'c'j gcf d'cpf "qt'ut'cr 'y kj 'uchgv' i ruugu'v'q'nggr 'y go " htqo 'h'cnkpi 'qh'0K'q'w'y gct'r tguetr v'kp'i ruugu. "wug'ur gek'n'i qi i ngu'v'q'h'k'x'gt'y go . "qt'i gv' uchgv' i ruugu'y kj "q'w'r tguetr v'kp'0O cng'ut'g'q'w' i qi i ngu'h'k'upwi n' "dw'eqo h'qt'cdn'ctqwpf " y g'dt'kf i g'qh'q'w'p'qug. "ej ggmi. "vgo r ngu'cpf 'h'qt'gj gcf 0K'q'w'y gct'eqp'cev'hpugu. "rgv'q'w' " uwr gtx'kuqt'hp'qy 0' q'w'eqo r cp{ 'o c{ 'j cxg'c'ur gek'n'r q'rle{ 0N'q'q'ni'ht'v'g"ANSI Z87'ko r tlpv'qp" y g'htco gu'qh'q'w'uchgv' i ruugu0O cng'ut'g'g'g'r tqvgevqk'gs v'kr o gpv'eqp'ht'o u'v'q'y g'Co g'klecp" P'v'k'q'p'cn'U'cpf ctf u'k'p'unk'wg"CP UK'ucpf ctf u0"

"

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# Keep Your Hands Safe

J cpf u'ctg'vj g'o quv'wugf 'cpf 'o quv'xgtuc'krg'vqqr'lp'vj g'y qtnr nreg. 'cpf 'ctg'cnuq'vj g'o quv' hts wgpw' 'lplwtgf 'dqf { 'r ctv'qp'vj g'lqd0Vj kpm'qh'cni'vj g'y c { u' { qw'wug' { qwt'j cpf u'cpf 'j qy " xcnwcdrg'vj g { 'ctg'vq' { qw0O cp { 'uwf f gp'cpf 'f gxcucv'kpi 'lplwtkgu'eqwf 'dg'r t'gxgpygf 'd { 'y gctkpi " vj g'r tqr gt'j cpf 'r tqvgev'kqp'hqt' { qwt'lqd0"

## Gloves

I mxgu'ctg'r gtj cr u'vj g'o quv'eqo o qpn' 'wugf 'v { r g'qh'j cpf 'r tqvgev'kqp0Vj g { 'r tqvgev' { qwt'gpv'ktg' j cpf 'cpf 'uqo g'w'o gu' { qwt'y tkuw'cpf 'hqtgcto u0Dg'uwtg'vq'wug'vj g'i mxgu'vj cv'ctg'tki j v'hqt' { qwt' lqd0I mxgu'o cf g'qh'vj g'y tqpi 'o cvgtkcn'eqwf 'lplwtg' { qwt'qt'f kuuqrg'dghqtg' { qwt'g { gu0" Hcdtle'i mxgu'ctg'wugf 'hqt'o kf 'j gcv'cpf 'eqrf 0Y gct'twddgt'i mxgu'y kj 'kpuw'v'gf 'hpgtu'hqt' grgev'kcn'ly qtn0I mxgu'hqt'y qtnkpi 'ctqwpf 'grgev'kcn'j c { ctf u'ctg'eqmqt/eqf gf 'hqt'vj gk'tgukw'cpeg' vq'f k'hgtgpv'v { r gu'qh'xqnci g0I mxgu'hqt'ej go kcnu'qt'eqttquk'gu'ctg'o cf g'qh'twddgt. 'pgqr t'gpg'qt' xlp { r0Wug'ngcj gt'i mxgu'hqt'y qtnly kj 'ur ctmu. 'tqwi j 'cpf 'cdtcuk'g'o cvgtkcn. 'ueter kpi. 'cpf " gzvtgo g'j gcv0Y gct'o gcv'lo guj 'qt'Mexrct'i mxgu'y j gp'y qtnkpi 'y kj 'ucy u'cpf 'uj ctr 'gf i gu0' Y gct'hco g/tgctf cpv'i mxgu'ctqwpf 'qr gp'hco gu0Wug'tghrgev'xg'i mxgu.'uwej 'cu'cnw kpk gf " i mxgu.'hqt'lpvgpug.'tcf kcpv'j gcv0Qpn' 'y gct'i mxgu'vj cv'hk' { qwt'j cpf u0I mxgu'vj cv'ctg'vq'uo cni' ecp'r kpej 'cpf 'vktg' { qwt'j cpf u.'cpf 'i mxgu'vj cv'ctg'vq'rti g'ctg'enw u { 'vq'y qtnly kj 0C'xqkf " y gctkpi 'i mxgu'ctqwpf 'o qxlpi 'gs wkr o gpv'qt'o cej kpgt { 'r ctw0"

## Chemical Gloves

Kpur gev'vj go 'ectghwm' 'dghqtg'gcej 'wug0C'xqkf 'wukpi 'vj go 'h'vj g { t'g'v'qtp.'etcengf 'qt'uy qm'gp'hqo " g'zr quwtg'vq'uqrg'p'w0T'kpu'vj go 'dghqtg'v'cnkpi 'vj go 'q'h0E'ngcp'vj go 'dghqtg'r wukpi 'vj go 'cy c { ." uq'ej go kcn'tgukf w'g'f q'gup'v'dwkr 'w'r 'qp'vj go 0U'qtg'v'gco 'cy c { 'h'qo 'vj g'hki j v'y kj 'vj g'ew'h' wphqrf gf 'vq'cmqy 'xcr qtu'vq'guecr g'o qtg'gculn' 0" Y cuj " { qwt'j cpf u'vj qtqwi j n' 'ch'gt'y gct0"

## Other Hand Protection

J cpf 'r cf u.'o kwi.'hpi gt'i wctf u.'hqtgcto 'r tqvgev'qtu.'dctt'kgt'etgco u'cpf 'cpw'xkdtcv'kqp'i mxgu0"

## Take Care of Your Hands

Cxqkf 'lplwtkgu'd { 'dgkpi 'crgt'v'q'r qv'gpv'kcn'j cpf 'j c { ctf u'dghqtg'ceekf gpw'j cr r gp0" Wug'vj g'eqttgev'r gtuqpcnr tqvgev'xg'gs wkr o gpv'hqt'vj g'lqd0Ej geni { qwt'gs wkr o gpv'u'uchgv' 'i wctf u0' Cny c { u'wug'r wuj 'u'kenu'cpf 'uj kgrf u'y j gp' { qwt'g'uwr r qugf 'vq0" Wug'dt'wuj gu.'pqv' { qwt'j cpf u.'vq'y kr g'cy c { 'f gdt'ku0P g'xgt'wug' { qwt'j cpf u'vq'f q'c'v'cum'ly cv'y cu' o gcpv'vq'dg'f qpg'y kj 'c'vqqr0Wug'hqenq'w'w'ci qw'r t'qegf wt'gu'dghqtg'engcpkpi 'qt'tgr cktkpi 'cp { " o cej kpgt { 'cpf 'nggr' { qwt'gs wkr o gpv'lp'i qaf 'y qtnkpi 'qtf gt0U'qtg'j g'cx { 'o cvgtkcn'r tqr gt'nf 'uq' vj g { 'ecp'v'hcm'qp' { qwt'j cpf u0C'xqkf 'y gctkpi 'lgy grt { 'cpf 'mqug'ung'xgu0Wug'vq'qni'cpf 'r quk'k'qpu' vj cv'hnggr' { qwt'y tkuw'utck j v0T'guv' { qwt'j cpf u'g'xgt { '37'o kpw'gu.'uj cnkpi 'vj go 'qww'cpf 'utg'vej kpi " { qwt'hpi gtu0C'ngt'p'ev'g'v'cumu.'h'r quukdr.'vq'cxqkf 'tgr g'v'k'xg'ut'guu'lplwtkgu0C'xqkf 'g'zr quwtg'vq' ej go kcnu'cpf 'gzvtgo g'j gcv'cpf 'eqrf 'y j kej 'ecp'f co ci g' { qwt'unlp0M'ggr 'c'h'kuw'ckf 'h'k'cxck'cdrg' vq'v'gcv'ewu.'uetcvej gu'cpf 'dtw'kugu0"

"

"







# HEAT STRESS

Y gm'k'u] gtg/vtr ng'f ki k'vgo r gtcwtg#Y j gj gt '{ qwt'g'enko d'kpi 'Us wcy 'Rgcm'f q'kpi 'u'qo g'  
{ ctf y qtnlqt'r'nc { kpi 'dcm'v] gtg'ctg'u'qo g'r tgecw'k'qpu' '{ qw'uj qwf 'v'cng'v'q'r tqvgev' '{ qwtug'k'gu'cpf "  
{ qwt'hco k'kgu'htqo 'j gcv'g'zr quwtg0"

Vj gtg'ctg'v] tgg'o c'k'p'k'np'guugu't'g'rcv'gf 'v'q'j gcv'g'zr quwtg<J gcv'ut'qng.'j gcv'g'zj cwuk'qp'cpf "'  
j gcv'etco r u0Dgecwug'v] g{ 't'gs v'kt g'f k'htg'gpv't'g'cwo gpw.' '{ qw'uj qwf 'rgctp'v'q'v'gm'v] g'"  
f k'htg'gpeg'dgy ggp'v] go 0"

C'x'le'vko 'qh'j gcv'ut'qng'g'zr gtl'g'pegu'h'wuj gf 0f t { 'un'kp=c't'cr k'f 'j gct'v'dgc'v=h'w'f 0't'cr k'f 'dt'g'c'v] k'pi ="  
cpf 'c'j k'j 'd'qf { 'v'go r gtcwtg/w'w'cm { '327'f gi t'gg'u'H'c'j t'gpj g'k'v'qt'o q't'g0Vj g'x'le'vko 'o c { 'eqo r'nc'p'  
qh'f k' | k'pgu'cpf 'j gcf'cej g'qt'o c { 'u'w'htg'htqo 'eq'p'h'wuk'qp.'eq'p'x'wuk'qp.'f g'rt'k'wo . 'qt'  
w'pe'qp'ue'k'q'w'p'guu0**This is a medical emergency requiring quick action.**Y j k'g'q'p'g'r g'tu'qp'ecm'  
h'qt'go g'ti g'p' { 'o g'f'le'c'n'r g'tu'q'p'p'gn'q'v] g'tu'v] q'w'f 'i g'v'v] g'x'le'vko 'eq'q'rg'f 'q'h'0R'rc'g'v] g'x'le'vko 'k'p'c'  
w'd'q'h'eq'q'n'y c'v'gt'qt'w'ug'c'j q'ug'qt'y g'v'eq'v] u'v'q'dt'k'pi 'v] g'v'go r gtcwtg'f'qy p'0O cu'ci g'v] g'x'le'vko 'u'  
j c'p'f u'c'p'f 'h'gg'v'qy c'tf 'v] g'j gct'v'v'q'u'ko w'rc'v'g'ek'te'w'rc'v'q'p'q'h'v] g'eq'q'rg't'd'm'q'f 'q'h'v] g'k'o du'0F t { 'v] g'  
x'le'vko 'q'h'h'y j g'p'v] g'v'go r gtcwtg't'g'w't'p'u'v'q'p'q'to c'r'0T g'g'c'v'v] g'eq'q'rk'pi 'r t'q'eg'u'k'h'v] g'd'qf { "  
v'go r gtcwtg'ci c'k'p't'k'gu0"

C'x'le'vko 'qh'j gcv'g'zj cwuk'qp'c'r r gct'u'x'gt { 'f k'htg'gpv'htqo 'c'j gcv'ut'qng'x'le'vko 0Vj k'u'r g'tu'qp'uy g'cu'  
r t'q'h'w'ug'n' 'cpf 'j cu'r c'ng.'enco o { 'un'kp0Vj g'd'qf { 'v'go r gtcwtg'k'u'p'q'to c'r'0Vj g'r g'tu'qp'o c { 'h'gg'n'  
i k'f f { 'qt'p'g't'x'q'w.'qt'o c { 'dg'p'c'w'ug'q'w'0H'k'u'v'c'k'f 'h'qt'j gcv'g'zj cwuk'qp'k'u'v'q'i g'v'v] g'x'le'vko 'v'q'h'g'  
f'qy p'k'p'c'eq'q'n'r'nc'g'cpf 'v'q'uk'r'eq'q'n'y c'v'gt0C'r r n' 'eq'q'n'y g'v'eq'v] u'c'p'f 'm'q'ug'p'v] g'eq'v] k'pi 0K'v] g'  
eq'p'f k'k'qp'f'q'gu'p'q'v'ko r t'q'x'g.'u'gg'n'io g'f'le'c'n'c'w'g'p'v'k'p'0"

J gcv'etco r u'ctg'r'c'k'p'h'w'ur cuo u'k'p'v] g'cto u.'h'gi u'qt'c'df qo gp0Vj k'u'k'u'ec'w'ug'f 'd { 'c'm'qu'q'h'd'qf { "  
u'c'm'u'f'w'g'v'q'g'z'eg'u'k'x'g'uy g'c'v'k'pi 0J c'x'g'v] g'r g'tu'qp'uk'v'qt'h'g'f'qy p'k'p'v] g'v] c'f g'y j k'g'v'k'r k'pi 'eq'q'n'  
y c'v'gt0O cu'ci k'pi 'v] g'etco r g'f 'o w'u'eng'u'qt'r t'g'u'k'pi 'h'k'o n' 'q'p'v] go 'y k'j '{ qwt'j c'p'f u'ec'p't'g'n'k'x'g'  
v] g'etco r u0"

J gcv't'g'rc'v'gf 'k'np'guugu'ec'p'dg'c'x'q'k'f g'f 0J g't'g'u'v] j c'v'v'q'f'q'v'q'h'ng'r 'j g'c'm] { 'k'p'j q'v'y g'c'v] g't="

V'cng'k'v'g'cu { 0C'm]y '{ qwt'd'qf { 'v'ko g'v'q'c'f l'w'v'v'q'y q't'n'k'pi 'k'p'v] g'j g'c'v0"

**Drink plenty of water.**'F'q'p'v] y c'k'v'p'v'k'i' '{ qwt'g'v] k'tu'v { 0D { 'v] c'v'v'ko g.' '{ qw'o c { 'dg'g'zr gtl'g'p'ek'pi "  
f'g] { f't'c'v'k'p'0F t'k'p'n'c'v'g'c'u'v'g'k'j v'q'w'p'eg'u'g'x'gt { '52'o k'p'w'gu'y j k'g'y q't'n'k'pi 'q'w'uk'f g'0C'x'q'k'f "'  
c'rc'qj q'rk'e'd'g'x'gt'ci gu0Vj g { 'y k'n'q'p'n' 'c'ee'g'rg't'c'v'g'v] g'f'g] { f't'c'v'k'p'r t'q'eg'u0"

**Eat right and eat light.**C'x'q'k'f 'j q'v'j g'c'x { 'o g'c'm'0H'g'uj 'h'w'ku'c'p'f 'x'gi g'v'c'd'rg'u'c't'g'i q'qf "'  
c'ng't'p'c'v'k'x'gu'k'p'eg'v] g { 'ctg'j k'j 'k'p'y c'v'gt'eq'p'v'p'v'c'p'f 'eq'p'v'c'k'p'x'k'co k'pu'c'p'f 'o k'p'g't'c'm'q'u'v'  
v] t'q'w'j 'r g'tur k'c'v'k'p'0"

**Dress sensibly.**'Y g'ct'f'k'i j v'eq'rg't'g'f 'eq'v] k'pi 'v] c'v'rg'u' '{ qwt'un'kp'dt'g'c'v] g'0Y g'ct'c'ec'r'qt'  
y k'f g'dt'ko o g'f 'j c'v'v'q'v] k'rg'f '{ qwt'j g'c'f 'c'p'f 'h'ceg'y j g'p' '{ qwt'g'q'w'uk'f g'0"

**Give yourself a break.**R'rc'p'dt'g'c'm'u'q'w'q'h'v] g'u'w'p'v'q'c'm]y '{ qwt'd'qf { 'v'q'eq'q'n'q'h'0"

R'rg'c'ug't'go go d'gt'00'c'p { 'h'q'to 'qh'j gcv'g'zr quwtg'ec'p'dg'c'ug't'k'w'u'v] t'g'c'v'v'q' '{ qwt'j g'c'm] 'cpf "'  
u'c'h'g'v { 0F'q'p'v'k'i p'q't'g'v] g'f'c'p'i g't'k'i p'u0"



# Lifting Basics

Vj g'eqpwtwekqp'lpf wwt { 'j cu'yj g'ugeqpf 'j ki j guv'tcvg'qh'dcemikplwtkgu0Vy gpv{/hkg'r gtegpv'qh'  
kplwtkgu'lp'eqpwtwekqp'ctg'dcemikplwtkgu0P qv'qpn{ 'ku'c'dcemikplwt { 'r ckphwn'dw'k'ecp'dg"  
r gto cpgpv'cpf 'k'ecp'gpf "{ qwt'ectggt0Mpdy "cpf 'wug'yj g'hqmy kpi 'i wkf grkpgu'hqt'eqtgevrhmkpi "  
cpf 'cxqkf "wppgeguuct { 'kplwt { 0"

## Before You Lift

### Size up the load and ask yourself:

Ki'yj ku'qdlgev'vqq'j gcx { 'qt'vqq'cy ny ctf 'hqt'o g'vq'hk'w'cpf 'ectt { "cmppgA"  
J qy 'j ki j 'f q'Kj cxg'vq'hk'w'A"  
J qy 'hct'f q'Kj cxg'vq'ectt { 'k'A"  
Ki'yj ku'hk'kpi 'c'tgi wwt'r ctf'qh'o { 'lqdA"  
Co 'Kt { kpi 'vq'ko r tguu'uqo gqpg'd { 'pqv'wukpi 'c'o gej cplecn'hk'kpi 'f gxlegA"  
Ki'yj g'r cyj 'emctA"  
"

## When Lifting

Rqukkqp "{ qwt'hggv'eqtgevr { < qpg'hqqv'pgzv'vq'yj g'hqcf 'cpf 'qpg'hqqv'dgj kpf 'k0Egpvt "{ qwtugr'hqxt"  
yj g'hqcf . 'us wcv'cv'yj g'hpggu'y kj "{ qwt'dcemikplwtcki j v'cpf "{ qwt'j gcf 'hqty ctf 0I tkr 'cpf 'j wi 'yj g'hqcf "  
wukpi "{ qwt'hwn'r cm u'cpf 'hgg'r kpi "{ qwt'gndqy u'cpf 'cto u'pgct "{ qwt'0Nk'w'utcki j v'w . 'yj twukpi "  
f qy p'y kj "{ qwt'hgi u0P gxgt'vy ku' { qwt'dqf { 0Ki' { qw'o wuv'wtp . 'r qkp' { qwt'hggv'lp'yj g'f k'gevkqp "  
{ qw'pggf 'vq'wtp0Ugv'yj g'hqcf 'f qy p'd { 'umy n' 'dgpf kpi "{ qwt'hpqgu . 'hgw'kpi "{ qwt'hgi u'f q'o quv'qh"  
yj g'y qtn0F qp'v'gv'i q'qh'yj g'hqcf 'v'p'v'k'k'u'qp'yj g'i tqw'pf 0"  
"

## Know Your Own Strength

O quv'y qo gp'uj qwf 'hkw'pq'o qtg'yj cp'4: 'r qwpf u0Qpn { '32'r gtegpv'ecp'hk'w'cu'o wej 'cu'69'r qwpf u0  
O quv'o gp'uj qwf 'hkw'pq'o qtg'yj cp'59'r qwpf u0Qpn { '32'r gtegpv'ecp'hk'w'92'r qwpf u'uchgn 0"  
"

## If You Get Hurt

Tgr qtv' { qwt'kplwt { 'vq' { qwt'uw'r gtxkqt 'ko o gf kcvgn { 'uq'j g'qt'uj g'ecp'j gr "{ qw'ugv'w'r 'c'y qtn'r rcp"  
cpf "{ qw'ecp'r tqvgev' { qwt'y qtngtu 'eqo r gpucvkqp'tki j u0I kxg' { qwt'kplwt { 'vko g'vq'j gcr0Ki'r ckp"  
r gtukuu . 'ugg' { qwt'f qevqt0I gv'lpvq'c'r j { ulecn'eqpf kkp'kpi 'r tqi tco 'yj cv'kpenw'f gu'utgvej kpi 'cpf "  
utgpi yj "gztekugu0"  
"  
"



## Trenching Safety

Ɓ'v j g'eqpustwvƁp'Ɓf wut { . "gzeccvƁp'y qtnlwej "cu'tgpej Ɓi "ecp'dg"gzvgo gn{ "j c| ctf qwu0C" vtgpej "ku'f ghƁgf "cu'c'pcttqy "gzeccvƁp'o cf g'dgny "i tqwƁf "Ɓ'y j Ɓej "v j g'f gr vj "ku'i tgcvgt "v cp" vj g'y Ɓf vj . "y j Ɓej "ku'37'hggv'qt'rgu0C"ecxg/Ɓ'ku'v j g'o quv'eqo o qƁ'v r g'qh'vtgpej Ɓi "ceekf gpv'cpf " vj g'o quv'f gcf n{ 0Ecxg/Ɓu'ctg'wuwcm{ "v j g'tguwv'qh'wpuchg'y qtnr tcewv'egu'Ɓqv'wulpi "uj qtkpi . " wulpi "Ɓcf gs wcv'uj qtkpi . "gzeccvƁp "vq'equg'v'c'dwrf Ɓi "qt'wvkv{ 'r qrg. "o kulw' i Ɓi "v j g" ucdkv{ "qh'v j g'uqkn'xkdtcvƁpu'ecwugf "d{ "eqpustwvƁp'y qtm'qt'y gcvj gt "eqpf Ɓkvpu'v cv'ej cpi g" vj g'uqkn'ctqwƁf "v j g"gzeccvƁp0T go go dgt "v j g'hqny Ɓi "vr u'y j gp'y qtnƁi "y Ɓj "vtgpej gu0"

### Before You Dig

Eqpcev'v j g'mecn'wkv{ "eqo r cƁgu'cpf "v j g'qy pgt "qh'v j g'r tqr gtv{ "v'Ɓf "cp{ "wƁf gti tqwƁf " hzw'gu'v j cv'o c{ 'r tgupv'c'r tqdrgo 0"

T go qxg'qt "ugewt'g'cp{ "uwthceg'qdlgew'v j cv'o c{ "etgcvg'c"j c| ctf "/"tqemu. "tggv. 'r qrgu'cpf " ukf gy cmu0"

Rcp'hqt'go gti gƁegu'f wƁi "vtgpej Ɓi 00 cng'uwg' { qw'j cxg'go gti gpe{ "tguewg'gs wv o gpv'cpf " vƁƁgf "tguewg'r gtuqppgn'qƁ'ukg0"

EncuƁh{ "v j g'v r g'qh'uqkn'cpf "tqemf gr quku'cv'v j g"gzeccvƁp'ukg'cu'gk j gt "ucdrg'tqem'qt'v{ r g'C." v r g'D'qt'v r g'E'uqkn'Uqkn'encuƁh'ecvƁp'o wuv'dg'o cf g'd{ "wulpi "qpg'xkuwcn'cpf "cv'rgcv'qpg"

o cƁwcn'cƁcn{ uk0"

Wug'v j g'hqny Ɓi "f ghƁkvƁpu'v'j gr " { qw'v{ r g' { qwt'uqkn'0

#### Type A Soil

Gzco r rgu'Ɓenw'f g'em{ . "ukw{ 'em{ . "ucpf { 'em{ "cpf "em{ "mqco 0"

#### Type B Soil

Gzco r rgu'Ɓenw'f g'ukw. "ukw{ "mqco "cpf "ucpf { "mqco 0"

#### Type C Soil

Gzco r rgu'Ɓenw'f g'i tƁwrt'uqkn'uwej "cu'i tcxgn'ucpf . "mqco { "ucpf . "uwdo gti gf "uqkn'uqkn' hqo "y j Ɓej "y cvgt'ku'ht ggn{ "uggr Ɓi "cpf "uwdo gti gf "tqem'v j cv'u'Ɓqv'ucdrg0"

### During Trenching

Cny c{ u'y gct'v j g'r tqr gt'r gtuqpcnr tqv'v'xg'gs wv o gpv'hqt "v j g'lqd0"

MƁqy "j qy "cpf "y j gtg'v'gzkv'v j g'vtgpej 0T go go dgt. "h'c'vtgpej "ku'6'hggv'f ggr "qt"i tgcvgt. "cp'gzkv" o wuv'dg'r tqxkf gf "y Ɓj Ɓ'47'hggv'qh'gcej "y qtngt0"

Mggr "vtgpej Ɓi "o cej Ɓgu'gxgn'v' r txxgpv'wƁf gtewwƁi "v j g'uqkn'cpf "nggr "v j g'uj qtkpi "cu'emug'cu" r qukdrg'v'v j g'vtgpej Ɓi "o cej Ɓg0"

Rkv'gzeccv'f "uqkn'cv'rgcu'4'hggv'htqo "v j g'gf i g'qh'v j g'vtgpej 0"

Y j gp'v j gtg'u'dggp'c'ej cpi g'Ɓ'y gcvj gt. "uwej "cu'c'j gcx{ "tƁƁ'qt'v j cy Ɓi "chgt'c'htgg' g. "ej genly Ɓj " { qwt'uw'gtxku'q'tdghgt'g'i qƁi "Ɓv'v j g'vtgpej 0Vtgpej "y cmu'v j cv'y gtg'uchg'y j gp'f t{ "qt'htq| gp'ecp"

eqmcr ug'y j gp'ucwv'cv'f "y Ɓj "y cvgt'qt'v j cy gf "qwu0"

Ɓ'gzeccvƁpu'f ggr gt'v j cp'6'hggv'qt'y j gtg'j c| ctf qwu'cvo qu'j gtgu'gzkv'qt'eqw'f "gzkv. "v j g'ck" o wuv'dg'v'ugv'f "dghgt'g'gpv{ 0"

Mggr "o cvgtknu'cpf "gs wv o gpv'v j cv'eqw'f "tqm'qt'hcni'Ɓv'c"vtgpej "cv'rgcu'4'hggv'cy c{ "htqo "v j g" gf i g0"

Dghgt'g'i gwƁi "Ɓv'cp{ "vtgpej . "o cng'uwg'v j cv'v j g'etquu'dtceƁi "ku'Ɓ'r mceg'cpf "vi j v0Etquu" dtceƁi "o c{ "dg'uetgy "lcemu. "j { f tcv'le'lcemu. "qt'engcv'f "cpf "tki Ɓf n{ "lceng'f "qt'y gf i gf "vko dgtu0"

O cng'uwg'v j g'uj ggvƁi "v j cv'hqto u'v j g'y cmu'qh'v j g'uj qtg'f "vtgpej "gzv'gf u'cv'rgcu'3: "Ɓej gu'cdqvg" v j g'qr "qh'v j g'vtgpej 0"

Wug'gzv'c'ecwƁp'y j gp'y cmƁi "ctqwƁf "qt"o qxƁi "gs wv o gpv'ctqwƁf "vtgpej gu0Gs wv o gpv'qt" uqkn'f tqr r gf "Ɓv'c'vtgpej "eqw'f "Ɓv'wtg'y qtngtu'dgny 0"

K'gs wv o gpv'uwej "cu'y j ggn'cttqy u'cpf "ego gpv'o kzgtu'o wuv'dg'wugf "qxgt'c"vtgpej . "dg'uwg'v'v j r tqxkf g'gzv'c'xgt'v'cn'uw' r qv'Ɓi "o go dgtu'dgy ggp'v j g'wtƁi gtu'qh'uj qtkpi 0"



## Alcohol and Other Drugs Spell Trouble On and Off the Job

"

[ qw'cirtgcf { "npqy "y cv'wukpi "creqj qn'cpf "qy gt'f twi u'qp'y g'lqd"chgeu" { qwt'cdkxkx { "q"  
uweeguuhwm { "cpf 'uchgn { "f q" { qwt'lqd0P qv'qpn { "f q" { qwt'kumlr gtupcnlplwt { "qt'f gcvj . " { qw'gpf cpi gt"  
qy gt u'f q'uj qf f { "y qtn'cpf "y kn'hkngn { "dg'hk gf "ki" { qwt'uwrtxkuqt'npqy u" { qwt'g'wpf gt "y g"  
kphwgep'qh'creqj qn'qt'f twi u0"

"

Y j cv" { qw'o c { "pqv'npqy "ku'y cv'creqj qn'cpf "qy gt'f twi u'y j gp'wugf "qhh'y g'lqd"ecp'cnuq'ecwug'y g"  
uco g'ugt'kwu'eqpugs wgegu0F tkpnkpi "creqj qn'qt'wukpi "f twi u'chgt'y qtn'ecp'gxcxg" { qw'ko r cktgf "  
y j g'pgzv'f c { "d { "ecwukpi "ktgf pguu."uj cnkpguu."hqi g'hwpguu."ectgrguupguu."f gj { f tcvkqp."ktkcdkxkx { . "  
j gcfcej gu'cpf "ugpukxkxkx { "q'pqkug'cpf "hki j v0F twi "qt'creqj qn'wug'y g'pki j v'dghqtg'ecp'chgeu" { qwt"  
cwgpvkqp"ur cp."lwfi o gpv'cpf "tghgzgu0K'f kuwtdu" { qwt'unggr "tj { y j o u'uq'y cv" { qwt'g'pqv'tguvgf "y g"  
pgzv'f c { 0J qy "y qwf" { "qwt'hkng"q'y qtn'qp" c"uechhqr" "y cv'y cu'r w'wr "d { "uqo gqpg'y kj "dcf "  
lwfi o gpv'cpf "c'uj qtv'cwgpvkqp"ur cpA"

"

Kl" { qw'uwur gev'y cv'uqo gqpg'cv'y qtn'ku'dgkpi "chgevgf "d { "creqj qn'qt"qy gt'f twi u." { qwt'g'pqv'f qkpi "  
cp { qpg" c'hcxqt "d { "ki pqt'kpi "y g'r tqdngo 0Ngv" { qwt'uwrtxkuqt'npqy 0"

"

Tgo go dgt. " { qw'ecp'hggn'luqdg"qt'utcki j v'cpf "ukm'j cxg'gpqwi j "creqj qn'qt"ej go kcnu'lp" { qwt"  
dqf { "q'chgeu" { qwt'lqd'r gthqto cpeg'cpf "r w" { qw'cpf "qy gt u'cv'tkun0"