

Participant Notes Pages

Fall & Electrical Hazards - Section 1: Stand TALL

Youth & Grain

- Youth under _____.
- Do not work in/around grain storage unless _____.
- Do not work inside grain structures when grain is being _____, _____, or _____.
- Properly trained by experienced & knowledgeable _____ for all tasks.
- Knowledge about ladder/climbing safety
- Employers must comply with _____.

Stand T.A.L.L.

Talk. _____. Learn. _____.

Employee Rights

www.whistleblowers.gov

www.osha.gov

Workers are entitled to:

1. _____ & _____ working conditions which **DO NOT** pose a risk of serious harm.
2. Fair compensation.
3. _____ unsafe or unhealthy working conditions without retaliation.

Major Grain Hazards

- Entrapment/Engulfment
- Entanglement
- _____
- _____
- Other Hazards
 - Dust
 - Struck By
 - Noise exposure



Participant Notes Pages

Fall & Electrical Hazards - Section 2: Fall Hazards

Same Level Falls

- Most _____
- Slips and Trips
- Hit an object as they fall

Elevated Falls

- Higher to lower level
- _____ common, _____ severe
- Over 65% less than _____ feet

Ladders

- _____ – main cause of falls
- 2 ladder categories:
 - _____ ladders
 - _____ ladders
- Some safety strategies are common to all types of ladders
- Free NIOSH Ladder Safety App: <http://www.cdc.gov/niosh/topics/falls/>

Safe Ladder Use

- **Only** _____ on ladder!
- Climb - _____ points of contact
- Always _____ ladder rungs
- Stay centered on rungs between rails
- Do not overreach
- Never carry tools/materials
- Use a _____ or hand line

Personal Ladder Use

- Never jump off or slide down
- Do not use - broke, bent or missing parts
- Wear _____, slip resistant shoes
- Do not use – tired or _____
- Do not use – under influence of medicine, alcohol, drugs
- Use fall protection on fixed ladders

Ladder Use Safety Tips

- Use _____
_____ ladder for the job
- _____ ladders before use
- Ladder feet _____ - firm level surface
- Never place ladder on top of other objects
- Never exceed maximum load rating
- Never _____ ladder when person is on it
- Do not use within _____
_____ of power lines
- Do not use in bad weather
- Keep free of oil, grease, debris, etc

Single/Extension Ladder Set-up – DO

- Incline _____ ratio
- Extend _____ feet
- Secure top & bottom
- _____ extension ladders
- Support at openings
- Use ladder levelers on uneven surfaces

Step Ladder Set-Up - DO

- _____ support for feet
- Fully _____ base and
_____ spreaders
- Set-up _____ to work

Single/Extension Ladder Safety DO NOT

- Set-up ladder upside-down
- _____ length
 - tie two ladders together
 - tie ladder sections together
- Never stand _____ step indicated on label

Step Ladder Safety – DO NOT

- Climb the side or _____
- Step or stand on
 - top cap
 - _____
 - bucket/pail shelf
- Use as a _____ ladder
- Use in partially open position



Fixed Ladder Safety

- Extend _____ above landing surface
- Total length is _____ feet or more
 - _____
 - Personal fall protection system
 - Ladder safety system
- Rest/work platforms – offsets; 50 feet

Protect Against Falls – 2 Ways

Restraint - keeps person from _____

- _____ - railings, barrier, etc.
- Personal fall (restraint) protection system

Structural Restraints

- Floor _____ - grates, covering
- Railings – _____ sides
 - Top rail, mid-rail & toe board
- Ladder/platform entrance
 - swing gate, barrier, offset



Fall Protection Required

- Heights of _____ feet and over
- Above or next to _____
- Floor & pit openings
- Stair & ladder openings
- Work platforms

Arrest – _____

when it occurs

- Personal fall arrest system – PFAS

Personal Fall Protection System



Participant Notes Pages

Fall & Electrical Hazards – Section 3: Electrical Hazards

How Electricity Works

- Looks for path to the _____
- Takes _____, most _____ route

Electrical Injuries

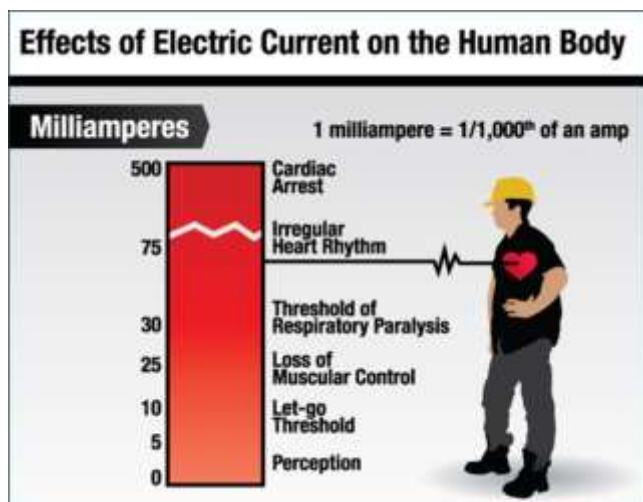
Electric shock/electrocution – Current flows through the body causing damage.

Severity

- Amount of _____
- _____ of current
- _____

Causes

- Falls
- Drop tools/objects
- Burns
 - Electrical – _____
 - _____ - heat



- Women feel effects sooner
- Women have _____ threshold of men

Electrical Effect

A 60 watt light bulb

- Draws 1/2 amp
- 1/2 amp = _____ milliamperes
- _____ milliamperes can cause death

Electrical Hazard Consequences

- Electrocution
 - _____ contact
 - Contact with overhead power lines
- _____
 - Electric spark ignites explosive mix
- Fires
 - _____ circuit
 - Faulty wiring causes _____ current

Overhead Power Lines

- _____ for overhead power lines
- ALWAYS _____ and secure auger before transport
- _____ work near power lines
- _____ power if must work near lines
- BE AWARE of long _____
- REMAIN in vehicle if contact is made
 - Call 911

Detasseling Corn

Supervisor

- _____ for hazards
- Irrigation equipment _____
- Properly supervise workers

Young workers

- Stay _____ from irrigation equipment
- Enter field only when told

Lock out/Tag out/Try out – LOTO

LOTO controls energy sources

- Lock out – De-energize & make _____ energy sources inoperable

- Tag out – _____ & inform others
- Try out – make sure lock out works

Keeps others from turning machines on!



When to use Lockout/Tagout

- _____ any maintenance/service
 - Work _____ equipment
 - Any body part in point of operation
- Before _____
 - Storage structures – bins, silos
 - Confined spaces
- Bypass or _____ guard

Performing Lock out/Tag out

Young Workers

- NEVER perform LOTO
- ONLY authorized adult performs
- _____ in LOTO policy
 - By competent adult
 - Know _____ can perform LOTO
- Attach _____ lock & hold _____
- Supervised by adult

If Someone is Electrocuted

- _____ power source
 - Trained & able to do safely
 - Assume wire is **live**; do NOT approach
- Immediately call 911

LOTO = 1 Lock, 1 key, 1 person



Your lock cannot be opened with another key

Stand T.A.L.L. –

Young Workers

- _____ to supervisor about LOTO
- _____ supervisor if LOTO was done
- LEARN
 - _____ LOTO is done
 - Put your own lock on
- LIVE - if LOTO is not done, _____
_____ do the job

- Do **NOT** physically aid victim
 - Must be _____
 - Keep victim calm & still
 - Must verify energy is disconnected
- Insist on medical attention