

Participant Notes Pages

Other Hazards, PPE, Labor Laws - 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

Other Hazards, PPE, Labor Laws - Section 2: Other Hazards

DUST HAZARDS

Grain Dust Inhalation – *Workers Breathe in dust*

- In combines
- Unloading grain
- In _____
- During drying & processing grain
- Grinding/mixing grain & feed
- Cleaning/housekeeping

Symptoms/Illnesses - *Reduce exposure – Wear PPE*

- Wheezing
- Eye & _____ irritation
- Chest tightness
- Productive cough
- Occupational asthma
- Chronic bronchitis
- Organic _____
Syndrome
 - ODS or Grain Fever
- Complicates other conditions

Dust Explosions

- Often severe
 - Loss of _____
 - Substantial property damage
- Past 35 years:
 - 503 grain elevator explosions
 - 677 injuries
 - 184 deaths

Anatomy of a Dust Explosion

- Dust is combustible - _____
- Suspended in air
- _____ to space
- Exposed to _____ source
 - Burns rapidly
 - Pressure rises
 - Secondary explosion

Preventing Dust Explosions

- Good housekeeping
 - Accumulation < _____
 - Equals 2 nickels stacked
- Wash down procedures
- _____ control system
- _____
- _____ prevention & protection
- Policies & Training

STRUCK BY HAZARDS

Struck By Hazards

Workers are struck by:

- Heavy equipment & vehicles
 - Run over, caught between
- _____/flying objects
 - Tools, materials, parts, debris
 - Machinery can _____
objects & fuel
 - Beware of residual energy & movement

Vehicle Run Over

- Be aware of others in area
- _____ blink spots
 - Back & side
 - Approach in _____

Vehicles – Caught Between

NEVER stand, sit, work, play. near,

_____, _____, side of
raised grain truck, lift or other vehicle

- Lock out _____
- Before _____ work on vehicle
 - Block tires
 - _____ or block lift device

- Avoid _____
- Back up lights & sound
- Wear high visibility clothing



Falling/Flying Objects

- Be aware – working under
 - Ladders, scaffold, equipment
- Work overhead
 - _____ tools securely
 - _____ objects/tools
 - Post warning signs
- Maintain tools & _____ properly
 - Loose hammer heads, tool pieces fly off
- Wear PPE

NOISE HAZARDS

Warning Signs for Hearing Loss

- Others raise their voice to be heard at arm's length
- Repeatedly asking "Huh?" or "What?"
- Turning up the radio/TV
- _____ in ears
- Feeling of "fullness" in ears

How loud is too loud?

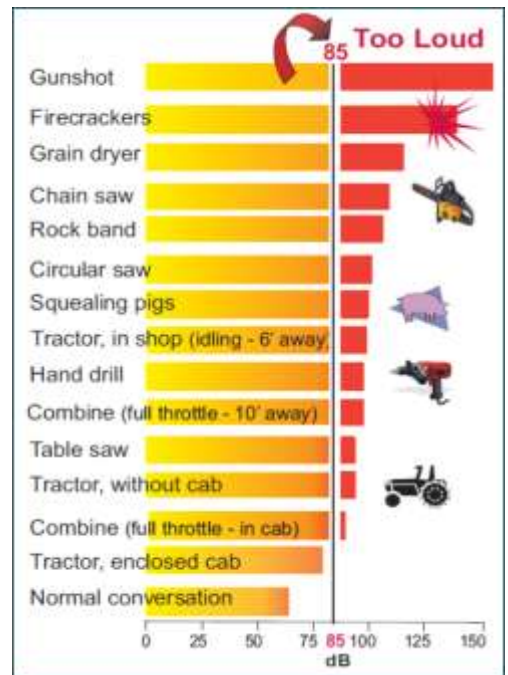
- Prolonged exposure causes damage at _____ decibels(db)
- _____ can damage hearing at 100db
- Damage is immediate over _____ db

PPE for Struck By Hazards

Personal Protective Equipment (PPE)

protects against/reduces severity of injury

- **Hard hat** - potential for falling objects
- **Safety glasses/goggles** – flying debris
- **Steel toed boots** – carrying loads; dropped, falling, rolling objects
- **Gloves** – extra grip; blister protection



Hearing Protection

Prevent hearing loss at work or play

- Ear plugs - pre-molded or formable
- Ear muffs - less effective with glasses, earrings, facial hair



Participant Notes Pages

Other Hazards, PPE, Labor Laws - Section 3: PPE

Dust Masks

- Protect against dust & molds
- 2 straps
- N95 or N99 masks
- Not for gases or vapors
- Do NOT use – heart or lung condition

Respirators

- Various types
- Choose correct type & filter/cartridge for job
- Replace filter/cartridge as needed
- Before use:
 - _____
 - _____ clearance
 - Trained

Head Protection

Bump Cap

- Protect – bumps against object, cuts, scrapes, _____
- Lightweight plastic covered by cloth
- Not _____ protection

Hard Hat

- Protect – impact of falling/flying objects
- Rigid shell
 - Expires _____ years
- Suspension system
 - _____ shock
 - Replace when worn

Hand Protection – Gloves

- Types of protection
 - _____, burn, insulate
 - _____
 - _____
- Levels of protection
- Choose for job task & hazard
- Always wear
 - Hand tools, chemicals, electricity
 - Excessive hand use

Eye Protection

Safety Glasses

- Protection
 - Front & sides of eye
 - Flying _____
 - Possibly UV rays
- Wrap around or side shields

Face Shield

- Worn with safety glasses or goggles
- Protection
 - Entire face
 - _____
 - Debris impact

Foot Protection – Shoes

Work Shoes

- _____ toed – no sandals or flip-flops
- Non-skid – good tread; not worn down

Safety Shoes

- _____ toed boots - impact
- Non-skid/slip resistant
- Steel plate on bottom
 - Optional - _____

Safety Goggles

- Fit _____
- Protection
 - Check vents
 - _____ environment
 - Liquid splash (chemicals)
- Possibly fumes

Participant Notes Pages

Other Hazards, PPE, Labor Laws - Section 4: Emergency Plan

Emergency Action Plan

Plan for emergency

- _____ to worksite
- All potential emergencies
- Injury, fire, severe weather, chemical, etc

Develop procedures

- Post emergency phone #'s & location
- Emergency evacuation/escape routes
- Account for _____
- Critical farm/plant operations
- Roles & Responsibilities
- Alarm/_____ system

Train ALL employees

- Roles & _____
- Procedures; equipment use
- _____ plan

Stand TALL – Emergency Action Plan

Talk to employer

Ask to see Emergency Plan

Learn your _____ & responsibility

Ask to be _____

When to call for help

Seek immediate medical attention

& notify adult:

Person is:

- _____
- Severe allergic reaction
- Trouble breathing
- Trapped in machinery/grain bin
- Other severe injury/illness

If in doubt, call for help!

Live - practice with co-workers

- If no plan – explain necessity
- _____ resources to

create one



Participant Notes Pages

Other Hazards, PPE, Labor Laws - Section 5: Labor Laws

Help for Young Workers

US Department of Labor

- _____ & _____
Division (WHD)
- Wage, _____ labor,
hazardous occupation orders
- Occupational Safety & Health
Administration (_____)
- Worker health & _____
- Some states have their own OSHA
- State Labor agency

Child Labor Laws Agriculture

years	<ul style="list-style-type: none"> • Minimum age to work _____ school hours • No hazardous jobs or heights over _____
years	<ul style="list-style-type: none"> • Minimum age to do jobs labeled _____ • No restrictions on school
Wage	<ul style="list-style-type: none"> • Hourly wage averages _____ minimum wage • Rate/hour, piece, day; salary; combination
	<ul style="list-style-type: none"> • Family farm or farm operated by _____ • Does not apply to commercial grain industry
Laws	<ul style="list-style-type: none"> • Check state & federal laws

Aq Hazardous Occupation Orders

Workers _____ 16 years CANNOT

- Operate tractor over _____ PTO horsepower OR **connect/disconnect** implements
- Operate or assist with many types of farm machinery & _____ power saws
- Work _____ fruit/forage/_____ _____; silo; manure pit or areas with nursing or stud livestock
- Work at height over 20 feet; Ride on tractor as passenger or helper
- Handle/apply anhydrous ammonia, toxic chemicals, blasting agents

Determine Job Readiness

- _____ is only **one** factor
- Workers same age vary
 - _____ & _____
 - _____
 - Cognitive ability
- Assess _____ for job tasks
 - Safety Guidelines for Adolescent Farm Workers (SaGHAF)
 - Youth Agricultural Work Guidelines

Communication Activity

PROBLEM		
<ul style="list-style-type: none"> • You are 15 and hired to work on a farm. • Boss tells you to climb up 25 feet (top of grain bin). 		
Action	Negative Outcomes	Positive Outcomes
DO Communicate	<ul style="list-style-type: none"> • Your boss could get angry with you • You could get fired* • Your hours could be cut 	<ul style="list-style-type: none"> • Could keep you from getting hurt • Could show you are really thinking about your safety • Could prevent a very costly consequence for the boss
DO NOT Communicate	<ul style="list-style-type: none"> • You could be severely hurt or die if you were to fall 	<ul style="list-style-type: none"> • You do not risk getting your hours cut or being fired • You will not look like a complainer

