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. ____________________.


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
DUST HAZARDS

Grain Dust Inhalation – *Workers Breathe in dust*

- In combines
- Unloading grain
- In ________________ __________

Symptoms/Illnesses - *Reduce exposure* – *Wear PPE*

- Wheezing
- Eye & ________________ irritation
- Chest tightness
- Productive cough
- Occupational asthma

- During drying & processing grain
- Grinding/mixing grain & feed
- Cleaning/housekeeping

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

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 ______________

- ______________ control system
- ______________
- ______________ prevention & protection
- Policies & Training

Vehicles – Caused 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

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

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

Hearing Protection

Prevent hearing loss at work or play

- Ear plugs - pre-molded or formable
- Ear muffs - less effective with glasses, earrings, facial hair
Dust Masks
- Protect against dust & molds
- 2 straps
- N95 or N99 masks

Respirators
- Various types
- Choose correct type & filter/cartridge for job
- Replace filter/cartridge as needed

Not for gases or vapors
- Do NOT use – heart or lung condition

Head Protection

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

Before use:
- ________________
- ________________ clearance
- Trained

Hard Hat
- Protect – impact of falling/flying objects
- Rigid shell
  - Expires ________________ years
- Suspension system
  - ________________ shock
  - Replace when worn
Notes Pages Section 3: PPE, continued

**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

**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 - ______________________

**Eye Protection**

**Safety Glasses**
- Protection
  - Front & sides of eye
  - Flying ________________
  - Possibly UV rays
- Wrap around or side shields

**Safety Googles**
- Fit ______________________
- Protection
  - Check vents
  - ________________ environment
  - Liquid splash (chemicals)
- Possibly fumes

**Face Shield**
- Worn with safety glasses or googles
- Protection
  - Entire face
  - __________________________
  - Debris impact
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
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 | • Minimum age to work ________________ school hours  
|       | • No hazardous jobs or heights over ______ ________ |
| years | • Minimum age to do jobs labeled ________________    
|       | • No restrictions on school                      |
| Wage  | • Hourly wage averages ________________ minimum wage 
|       | • Rate/hour, piece, day; salary; combination      |
| Laws  | • Check state & federal laws                     

• Minimum age to work... (likely to be filled in as per specific guidelines)
• No hazardous jobs or heights over... (likely to be filled in as per specific guidelines)
• Minimum age to do jobs labeled... (likely to be filled in as per specific guidelines)
• Check state & federal laws (likely to be filled in as per specific guidelines)
**Ag 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 | • 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** | • Your boss could get angry with you  
|             | • You could get fired*  
|             | • Your hours could be cut                                | • 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** | • You could be severely hurt or die if you were to fall | • You do not risk getting your hours cut or being fired  
|             |                                                                 | • You will not look like a complainer          |