

Job Safety Analysis

- Has been proven to be effective in many industries.
- Looks at individual job or work assignment.
- Reviews job methods and helps uncover hazards and recommends safe procedures.

Job Safety Analysis

Three basic steps:

- Each job broken down into a sequence of steps. Each step describes the actions of the job as that job is performed.
- Each step is examined to find and identify hazards. (actions, conditions, possibilities that could lead to accident)

Job Safety Analysis (steps)

- Recommended actions or procedures are determined for each hazard. Can become a guideline for actions necessary to eliminate or reduce hazards.

JSA

- Can be used in awareness training
- Inspection and investigations
- Document Training

JSA Break Job Down into Steps

- Simple task of hooking a tractor to a PTO powered feeder wagon

Hitching Tractor to Feeder

- First drive tractor to feeder



Hitching Tractor to Feeder

- Block Wheels to prevent movement



Hitching Tractor to Feeder

- Back tractor wagon



Hitching Tractor to Feeder

- Back to hitch
- Raise or lower hitch



Hitching Tractor to Feeder



- Move tractor until hitch is lined up and pin is connected



Hitching Tractor to Feeder

- Connect PTO Shaft



Sample Job Safety Analysis Form

| JOB SAFETY ANALYSIS | | Person Who Does Job: Tractor Driver | Supervisor: Farm Manager | Date: Sept. 10, 1983 | <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised |
|---|--|--|---------------------------------------|-------------------------|---|
| | | Organization: Bonnie Lea Stock Farm | Location: Platt Valley Section One | Department: Crops | Analysis By: W.J.F. |
| Required And/Or Recommended Personal Protective Equipment: Safety shoes, bump cap required, leather work gloves recommended. | | | | Approved By: J.L.B. | |
| SEQUENCE OF BASIC JOB STEPS | POTENTIAL HAZARDS | RECOMMENDED ACTION OR PROCEDURE | | | |
| 1. Drive alongside full wagon | Collision with full wagon or harvester. | Maintain 6'-8' clearance. Watch operator for signals. | | | |
| 2. Operator stops. Driver stops. slightly behind loaded wagon. Dis-mounts, withdraws hitch pin. | Fall from tractor. Stumble in stubble. Operator moves unexpectedly while worker is between machines. | Turn off tractor engine or place transmission in park. Use hand holds. Walk-don't run. Have operator's attention before going between machines. Place hitch pin in a secure position. | | | |
| 3. Return to tractor. While operator is moving forward, restart tractor. Drive toward harvester at 45 degree angle. When as close as possible, turn away at an angle until the tractor is clear of harvester. Stop engine or place in park. Dismount. Remove hitch pin. | Stumble in stubble field. Fall from tractor. Collision with full wagon or harvester. | Walk-don't run. Use hand holds and steps. Use standard starting procedures. Drive slowly enough to assure control of tractor and wagon. Make certain that tractor can not roll or slip into gear off is the best practice. | | | |
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JSA Potential Hazards

- Run over foot or child



JSA Potential Hazards



- Hitch doesn't line up
- Potential move wagon or sudden jerk cause injury to bystander

JSA Potential Hazards



- Hitch fall off jack if not raised to proper height
- Hard to lift hitch
- Possible back injury

JSA Potential Hazards



- By stander get run over
- Hit object
- Hit feed wagon

Job Safety Analysis

| Sequence of Events | Potential Hazards | Recommended Action or Procedure |
|---------------------------------------|----------------------------|---|
| Block wheels of feed wagon | Roll on incline | Check for slope ahead and behind wheel-use stable block |
| Back tractor to hitch | Strike wagon or helper | Have helper stand to side, indicating distance during backing |
| Raise/lower hitch To match drawbar | Tipping of folding of jack | Have jack stand supported by plank, make sure jack is locked |

Job Safety Analysis

| Sequence of Events | Potential Hazards | Recommended Action or Procedure |
|--|---|--|
| Park tractor to hitch location. Turn off engine | Roll on incline | Check for slope ahead and behind wheel-use stable block |
| Insert and lock pin | Pinch finger Loss of wagon in tow | Use palm to insert pin Use pins with locking device, safety chains |
| Attach power take off drive line | Back strain foot or finger injury if dropped | Stand close as possible to drive line. Grip w/both hands depress lock pin attach release pin, test secure lock |