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
- **New/Revised:**

**Organization:** Bonnie Lea Stock Farm

**Location:** Platt Valley Section One

**Department:** Crops

**Analysis By:** W.J.P.

**Approved By:** J.L.B.

**Required And/Or Recommended Personal Protective Equipment:** Safety shoes, bump cap required, leather work gloves recommended.

<table>
<thead>
<tr>
<th>SEQUENCE OF BASIC JOB STEPS</th>
<th>POTENTIAL HAZARDS</th>
<th>RECOMMENDED ACTION OR PROCEDURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Drive alongside full wagon</td>
<td>Collision with full wagon or harvester.</td>
<td>Maintain 6'-8' clearance. Watch operator for signals.</td>
</tr>
<tr>
<td>2. Operator stops, driver stops</td>
<td>Fall from tractor. Stumble in stubble. Operator moves unexpectedly while worker is between machines.</td>
<td>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.</td>
</tr>
<tr>
<td>3. Return to tractor, while operator is moving forward, restart tractor. Drive toward harvester at 45 degree angle.</td>
<td>Stumble in stubble field. Fall from tractor. Collision with full wagon or harvester.</td>
<td>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 in the belt practice.</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*Note: This form outlines the steps and potential hazards for a specific job, suggesting preventive measures and actions to take to ensure safety.*
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

<table>
<thead>
<tr>
<th>Sequence of Events</th>
<th>Potential Hazards</th>
<th>Recommended Action or Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block wheels of feed wagon</td>
<td>Roll on incline</td>
<td>Check for slope ahead and behind wheel-use stable block</td>
</tr>
<tr>
<td>Back tractor to hitch</td>
<td>Strike wagon or helper</td>
<td>Have helper stand to side, indicating distance during backing</td>
</tr>
<tr>
<td>Raise/lower hitch</td>
<td>Tipping of folding of jack</td>
<td>Have jack stand supported by plank, make sure jack is locked</td>
</tr>
<tr>
<td>To match drawbar</td>
<td></td>
<td></td>
</tr>
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<td>Potential Hazards</td>
<td>Recommended Action or Procedure</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Park tractor to hitch location. Turn off engine</td>
<td>Roll on incline</td>
<td>Check for slope ahead and behind wheel-use stable block</td>
</tr>
<tr>
<td>Insert and lock pin</td>
<td>Pinch finger</td>
<td>Use palm to insert pin</td>
</tr>
<tr>
<td></td>
<td>Loss of wagon in tow</td>
<td>Use pins with locking device, safety chains</td>
</tr>
<tr>
<td>Attach power take off drive line</td>
<td>Back strain foot or finger injury if dropped</td>
<td>Stand close as possible to drive line. Grip w/both hands depress lock pin attach release pin, test secure lock</td>
</tr>
</tbody>
</table>