

Why a Job Hazard Analysis (JHA) • Injuries occur every • You can help prevent day in the workplace injuries by doing a JHA • Sometimes injuries happen because • It will help you identify these "hidden" employees are not trained in the proper hazards and write safe job procedure, or and efficient work because hazards are procedures. hidden in the job itself. Western

Job Hazard Analysis

Job Hazard Analysis

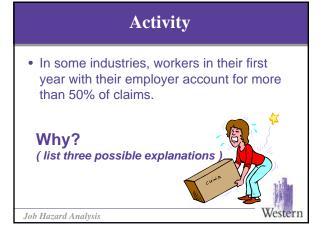
5 steps to JHA 1. Select jobs to analyze 2. Involve the employee 3. Do the Job Hazard Analysis 4. Make changes / recommendations 5. Write "Safe Operating Procedures"

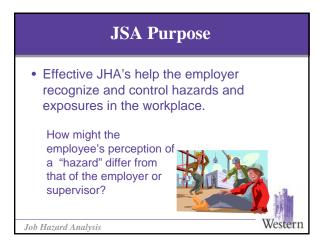
Job Hazard Analysis

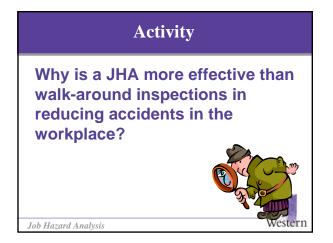
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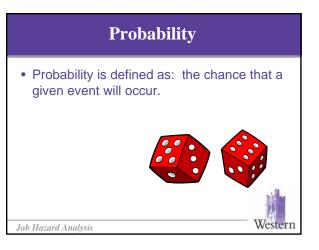
Form Teams • Elect a shop team leader Select a representative from each group Everyone is involved Let's get to work!











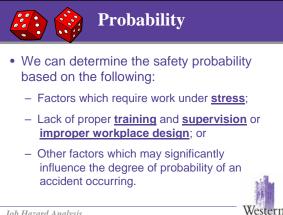
Probability

- We can determine the safety probability based on the following:
 - The <u>number</u> of employees exposed;

Job Hazard Analysis

- The frequency and duration of exposure;
- The proximity of employees to the danger zone;







Probability Rating

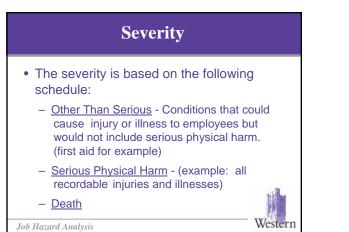
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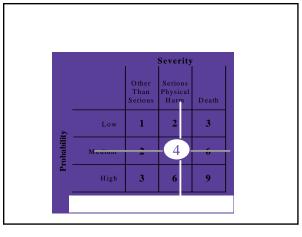
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- The probability rating is:
 - Low If the factors considered indicate it would be unlikely that an accident could occur;
 - Medium If the factors considered indicate it would be likely that an accident could occur; or
 - High If the factors considered indicate it would be very likely that an accident could occur.

Job Hazard Analysis





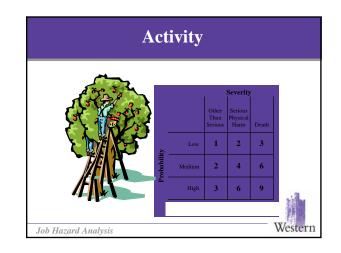


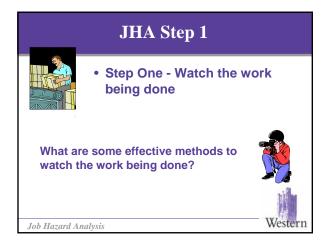
Activity

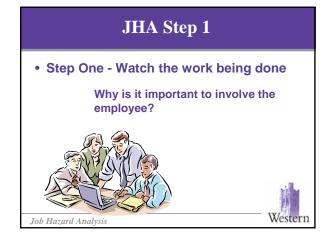
• Picking Apples:

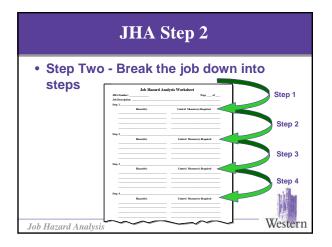
Job Hazard Analysis

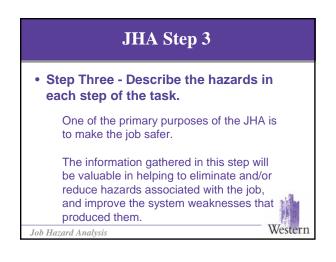
- There are 20 workers picking apples.
- The orchard is made up of 400 trees.
- The workers are paid based on how much each one of them picks.
- · Well-maintained equipment is provided but there is no training. The owner or the foreman will be in the general area most of the time.

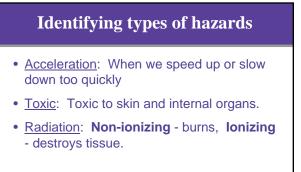












 Identifying types of hazards

 • Ergonomics: Eight risk factors

 - 1. High Frequency;

 - 2. High Duration;

 - 3. High Force;

 - 4. Posture;

 - 5. Point of Operation;

 - 6. Mechanical Pressure;

 - 7. Vibration;

 - 8. Environmental Exposure.



Identifying types of hazards

- <u>Pressure</u>: Increased pressure in hydraulic and pneumatic systems.
- <u>Mechanical</u>: Pinch points, sharp points and edges, weight, rotating parts, stability, ejected parts and materials, impact.
- <u>Flammability/Fire</u>: In order for combustion to take place, the fuel and oxidizer must be present in gaseous form.

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Identifying types of hazards

- <u>Biological</u>: Primarily airborne and blood borne viruses.
- <u>Violence In The Workplace:</u> Any violent act that occurs in the workplace and creates a hostile work environment that affects employees' physical or psychological well-being.

Identifying types of hazards

- Explosives: Explosions result in large amounts of gas, heat, noise, light and over-pressure.
- <u>Electrical Contact</u>: Inadequate insulation, broken electrical lines or equipment, lightning strike, static discharge etc.
- <u>Chemical Reactions</u>: Chemical reactions can be violent, can cause explosions, dispersion of materials and emission of heat.

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Accident Types

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• Struck-by:

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- A person is forcefully struck by an object. The force of contact is provided by the object.
- Struck-against:
 - A person forcefully strikes an object. The person provides the force or energy.

· Contact-by:

 Contact by a substance or material that, by its very nature, is harmful and causes injury.

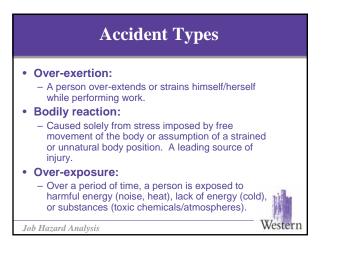
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Accident Types

• Contact-with:

- A person comes in contact with a harmful substance or material. The person initiates the contact.
- Caught-on:
 - A person or part of his/her clothing or equipment is caught on an object that is either moving or stationary. This may cause the person to lose his/her balance and fall, be pulled into a machine, or suffer some other harm.
- Caught-in:
 - A person or part of him/her is trapped, or otherwise caught in an opening or enclosure.











Management Controls

• Management controls may result in a reduction of exposure through such methods as changing work habits, improving sanitation and hygiene practices, or making other changes in the way the employee performs the job.

Job Hazard Analysis

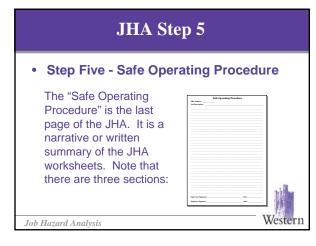


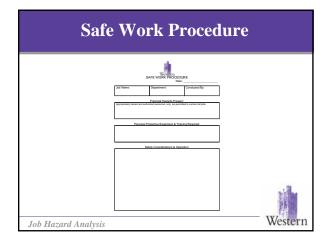
• When exposure to hazards cannot be engineered completely out of normal operations or maintenance work, and when safe work practices and administrative controls cannot provide sufficient additional protection from exposure, personal protective clothing and/or equipment may be required.

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