

Identifying Workplace Hazards



Major Components of a Safety Program

- Management Leadership & Support
- Assignment of Responsibility
- **Hazard Identification & Control**
- Employee & Supervisor Training
- Employee Awareness
- Medical & Emergency Assistance
- Accident & Incident Investigation
- Recordkeeping Activities

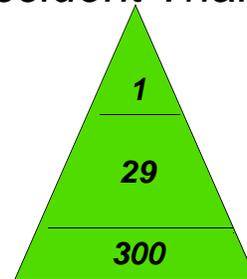


H.W. Heinrich, 1931

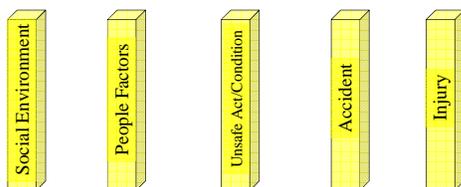
- 88% of all accidents are caused by unsafe acts
- 10% of all accidents are caused by unsafe conditions
- 2% uncategorized



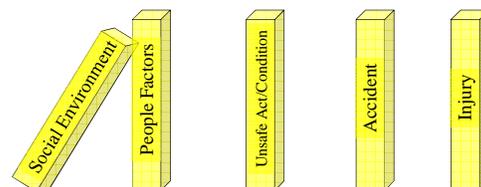
Accident Triangle

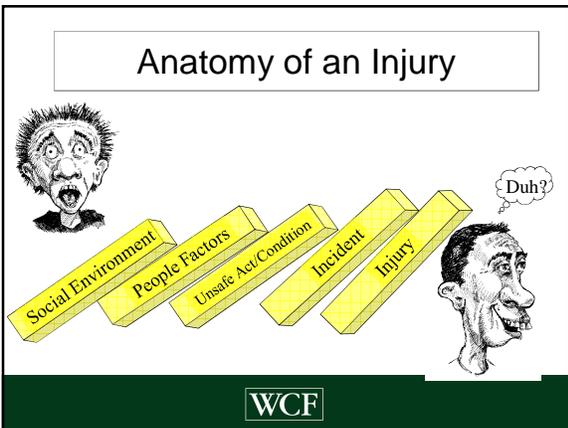
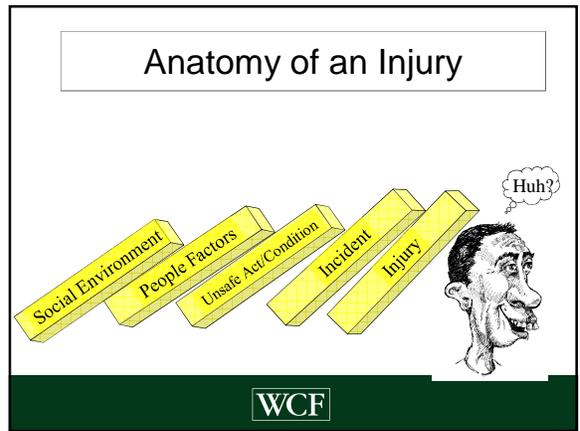
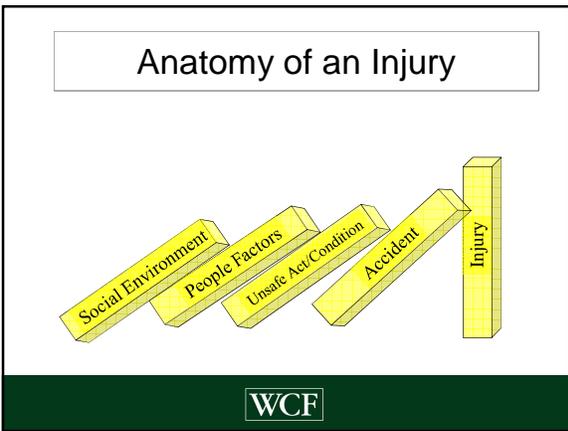
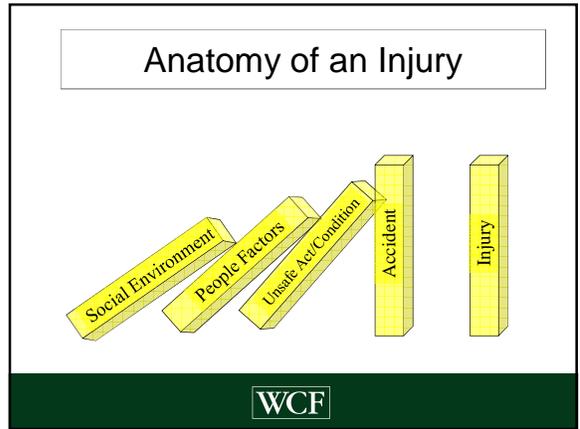
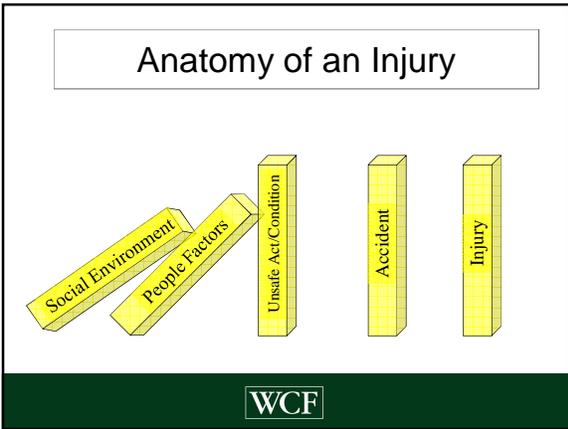


Anatomy of an Injury



Anatomy of an Injury





Behavioral Safety



Control Hierarchy

1 - Eliminate the Hazard



Control Hierarchy

- 1 - Eliminate the Hazard
- 2 - Engineer Out the Hazard
- 3 - Administrative Controls
- 4 - Personal Protective Equipment

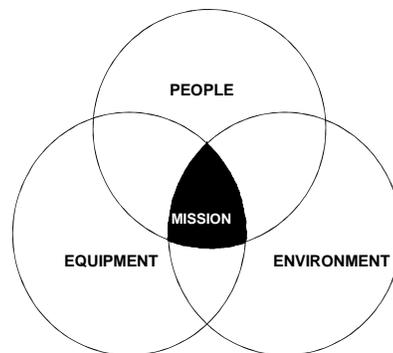


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INCIDENTS

ACCIDENTS

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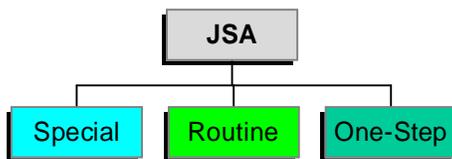
Addressing Hazards

- Anticipation
- Recognition
- Evaluation
- Control

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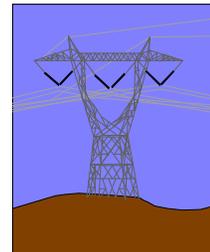
Job Safety Analysis



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Special

- Outside Electrical Work
 - Lineman
- Testing Boring Tool
 - Subway Construction Job



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Routine

- *Assembly & packaging*
- *Truck driving*



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One Step Job

- Shoveling coal



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Selecting & Prioritizing Jobs for JSA

- Accident Investigation Reports
- OSHA 300 Logs
- First Report of Injuries
- WCF Loss History
- WCF Loss Analysis
- Incident "Near Miss" Logs



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JSA & the Affected Employee

- Discuss
- Explain Purpose
- Involve the Employee
- Other Workers



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Checklist

- Develop
- Free Form
- Column & Box
- Example



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Job Safety Analysis

Job/Steps/Tasks /Operations	Unsafe Acts/Unsafe Conditions	Control Measures

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Break the Job into Steps

- List each step
- Order of occurrence
- Record information
 - Describe each job action
- Not too much detail
- Review steps with the employee



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Identify the Hazards

- Examine each step
- Determine the hazards
- Ask questions listed in questionnaires:
 - Identifying Hazards
- Repeat job observation
 - All hazards identified



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Conducting the JSA Checklist

QUESTION	YES	NO
1. Are there materials on the floor that ...		
2. Is lighting adequate?		
3. Are there any live electrical hazards ...		
4. Are there any explosive hazards ...		
5. Are tools, including hand tools, ...		
6. Is there excessive noise in the work ...		
7. Is fire protection equipment readily ...		
8. Are emergency exits clearly marked?		
9. Are trucks or motorized vehicles ...		

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Loss Control Measures Thought Process

- Can you do the job another way?
- Can better job steps be used?
 - List them
- How about a training program?
- Can you make any physical changes?
- If hazards are still present, what about task frequency?
- Review JSA recommended control measures periodically.

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JSA Review & Update

- Review and update periodically
- After changes in a job or operation
- After an accident or near miss
- Worker Behavior Modification
 - Before Progressive Disciplinary Measures
 - Reform
 - Lessons Learned



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Types of Inspections

- Continuous
- Planned
- Insurer Safety Staff
- Third Party

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Continuous Inspections

- Casual
- Unsafe Acts
- Unsafe Conditions
- Potential USA or USC
- Near Miss
- Take Action



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Planned Inspections

- Inspection schedule
- Checklist
- Camera
- Tape recorder
- Communicate results



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Safety Inspections

- Key element of safety program
- Identifies hazards
- Effective safety program
- Fewer accidents
- Lower WC insurance costs
- Reduced employee hiring & training costs
- Less repair and damaged equipment
- Improved employee morale



Identifying Hazards - Questions

QUESTION	YES	NO
1. Is the worker wearing protective clothing ...		
2. Are work positions, machinery, pits, or		
3. Are LO&TO procedures used for		
4. Is the worker wearing clothing or		
5. Are there fixed objects that may cause ...		
6. Is the flow of work improperly		
7. Can the worker get caught in, on or		
8. Is the worker at any time in an off balance ...		
9. Is the worker positioned to the machine		



Most Frequently Cited Serious Violations in General Industry FY 2007



Note: There were also 1277 Section 5(a)(1) General Duty Clause violations cited for all inspections during this period.

Number of Serious Violations - FY 2007

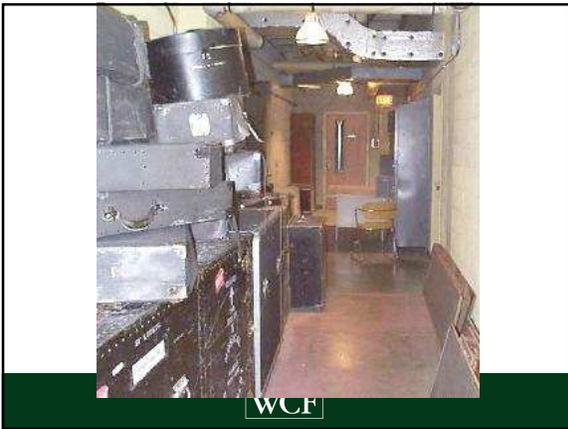
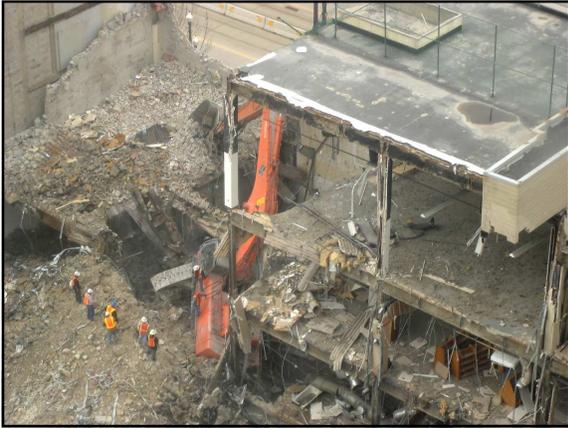


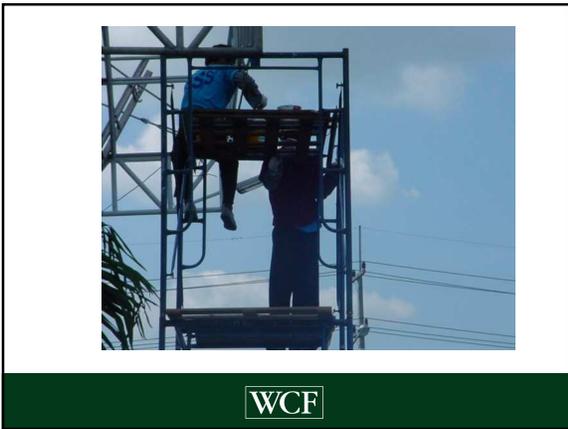
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Most Frequent W.C. Claims:

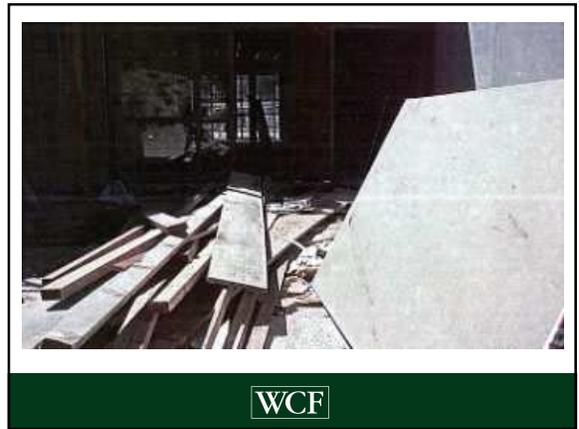
- Hand Injuries
 - (lacerations, contusion, fracture, amputations)
- Back Injuries
 - (sprains)
- Eye Injuries
 - (foreign body)
- Miscellaneous:
 - shoulder, wrist, ankle, head, knees, multiple



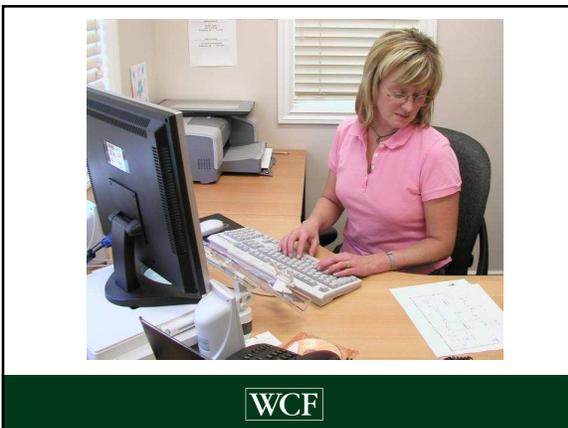




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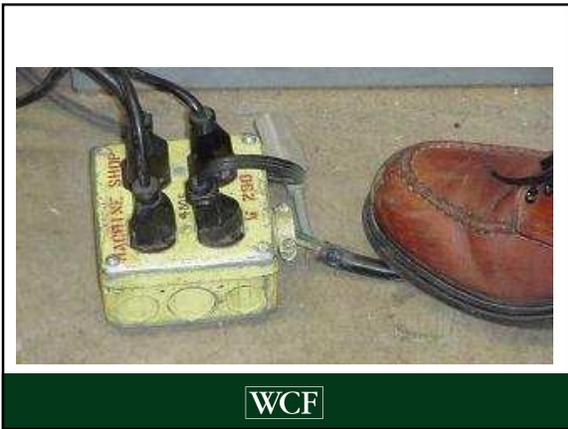


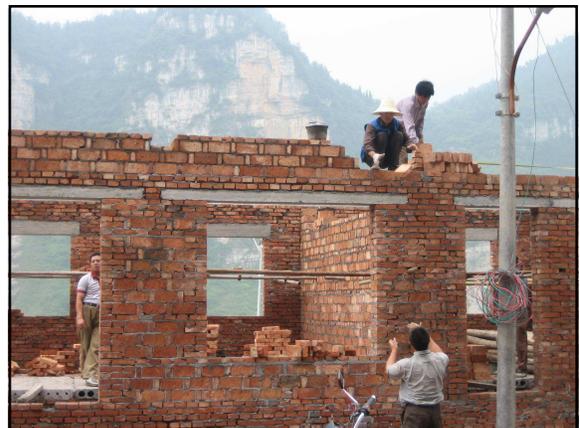
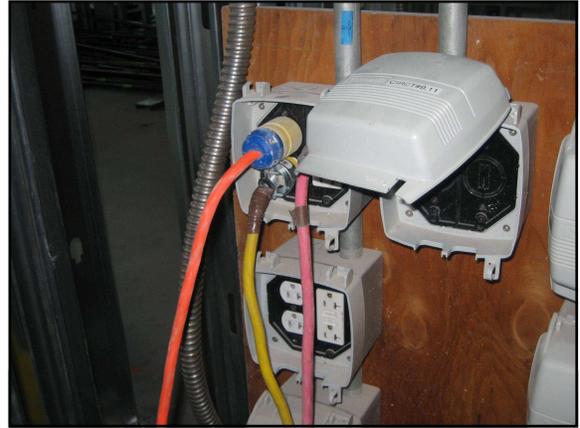
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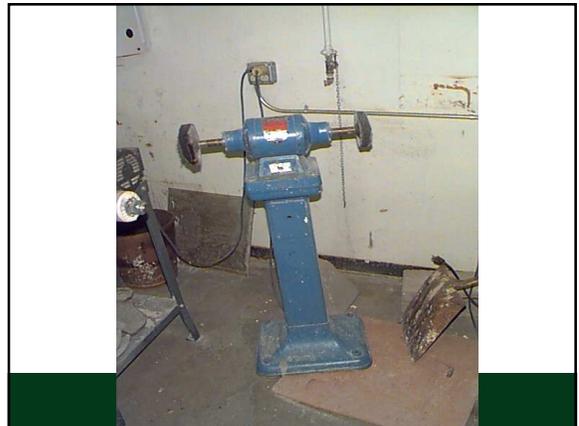
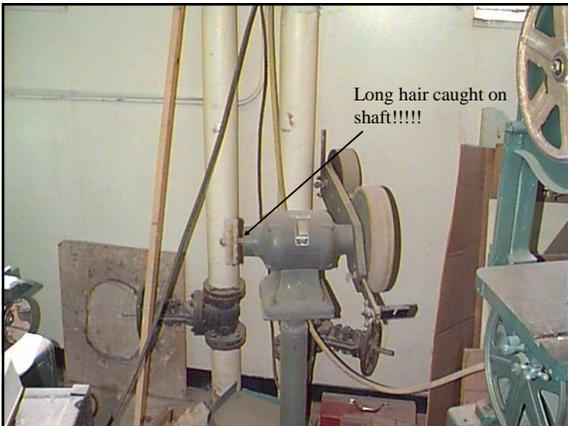
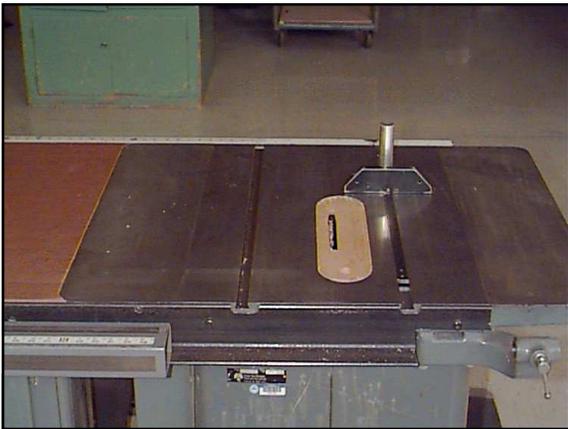
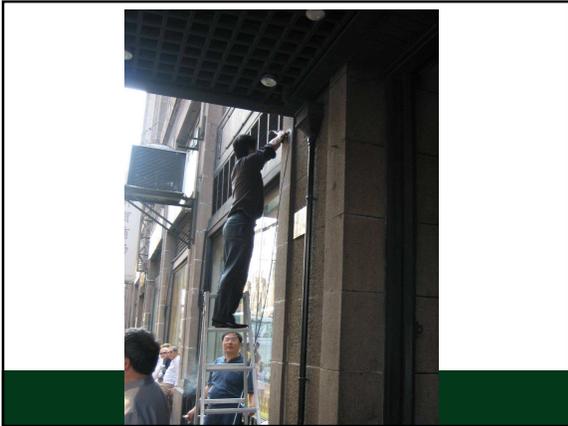


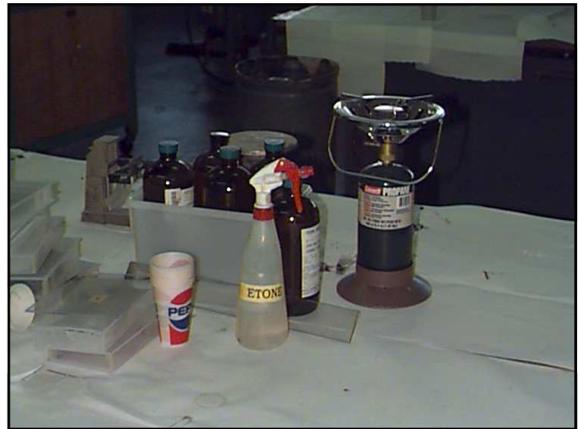
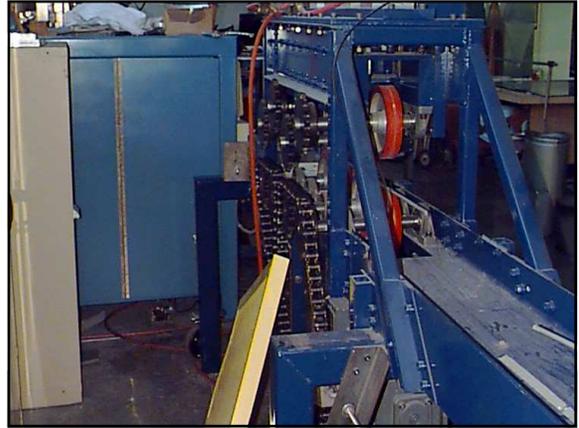
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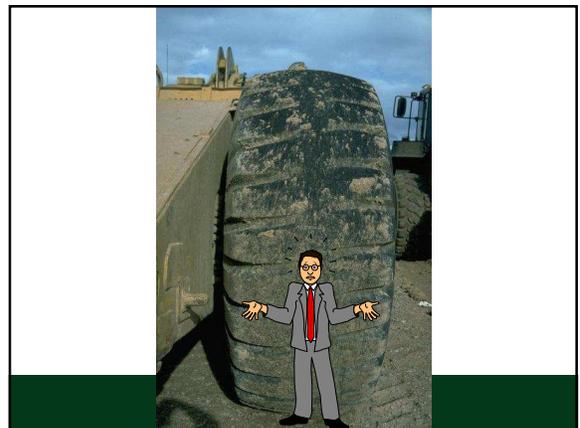
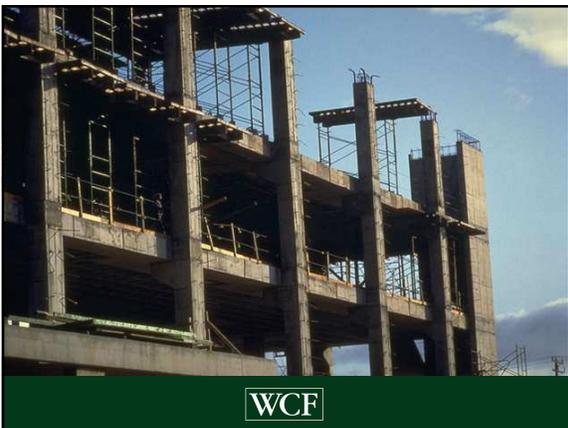
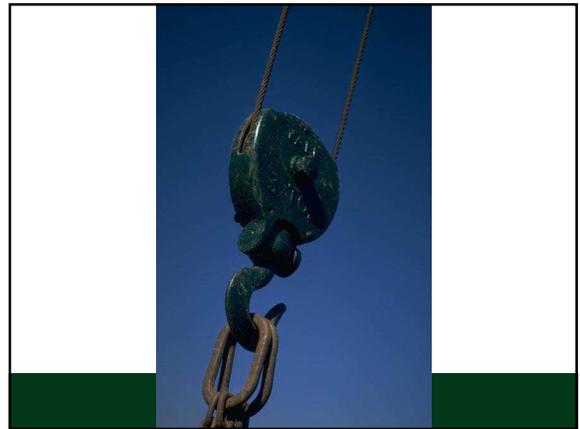
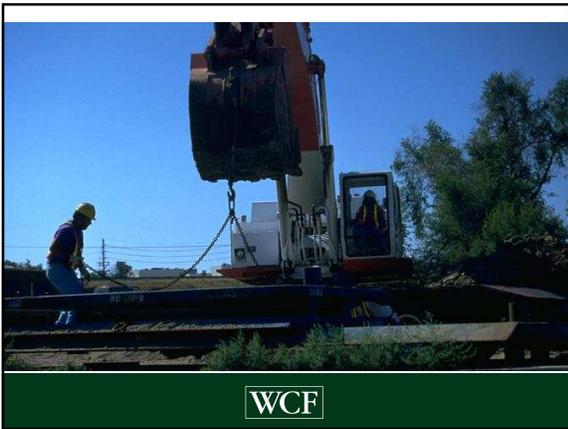
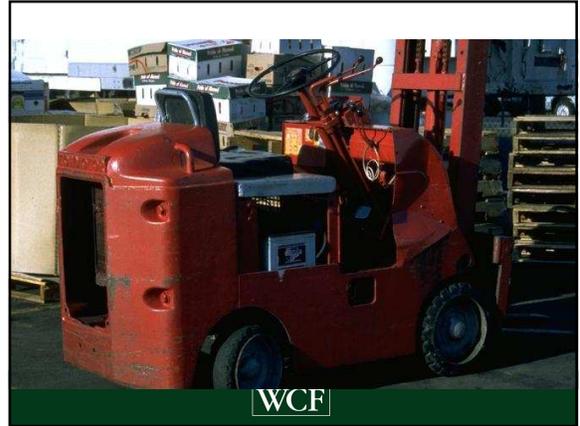
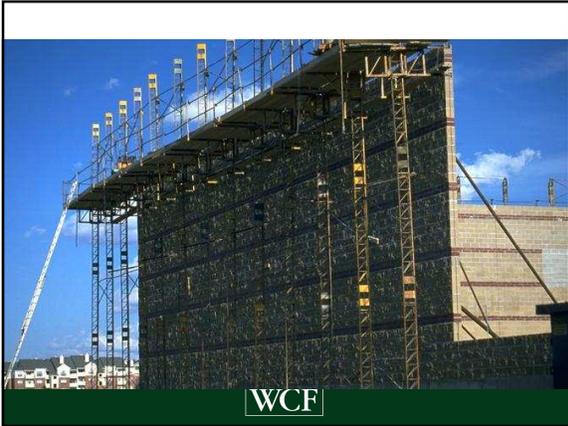




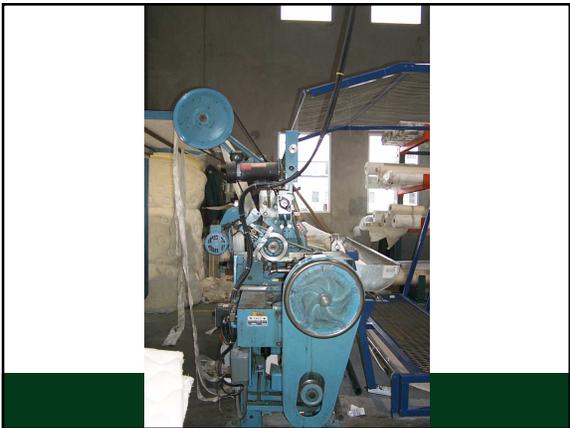






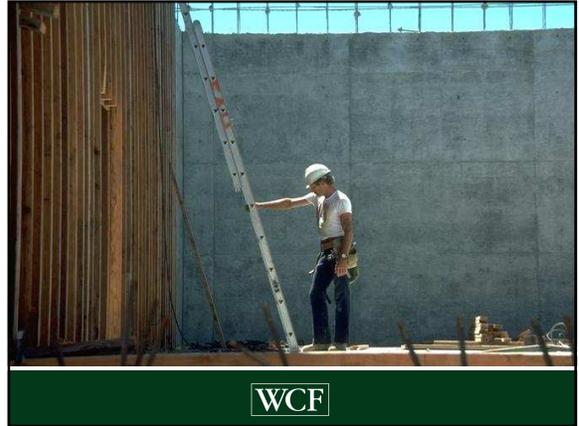




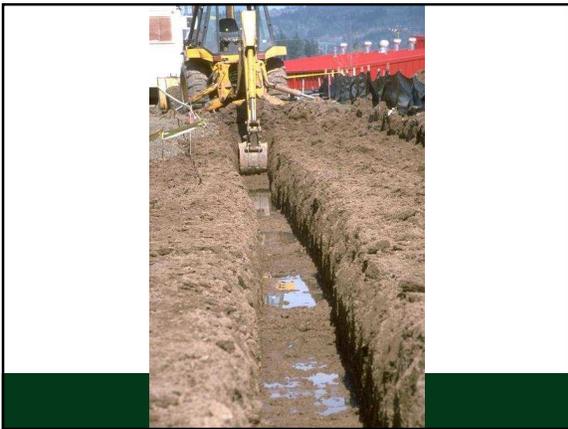




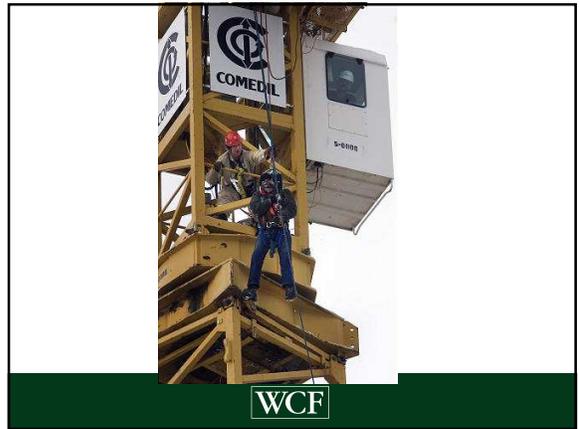
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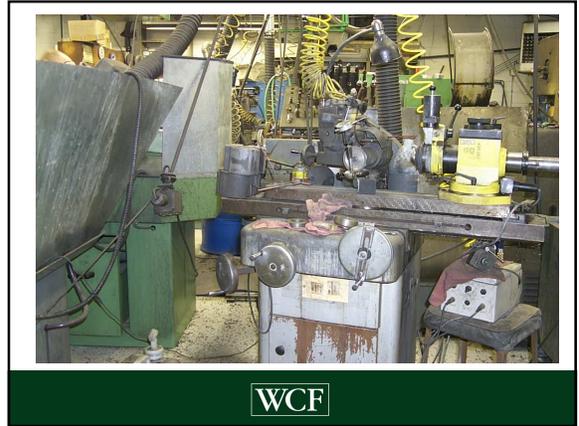
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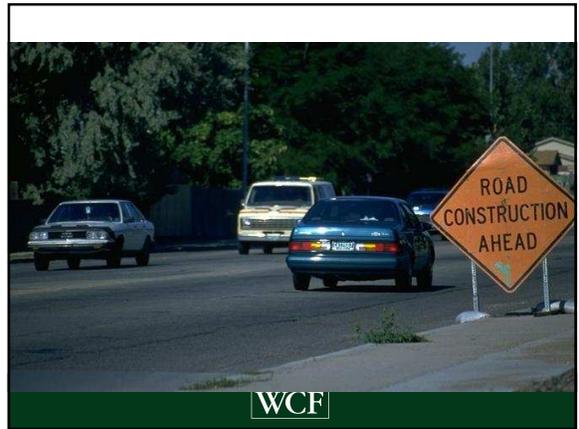
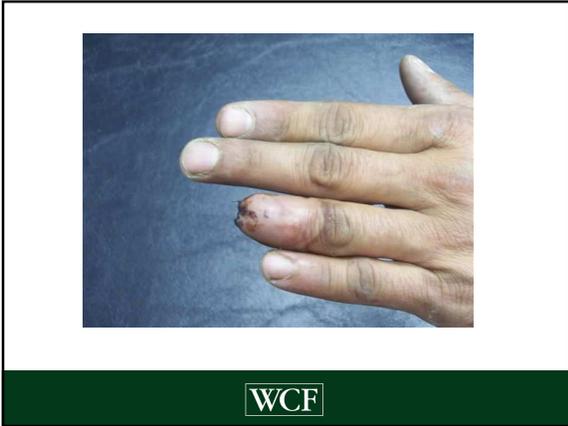


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Questions?

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