

OSC | 11
Ohio Safety Congress & Expo



#103 – The layered approach to hazard recognition

David Coble, MS CSP

Wednesday, March 30, 2011
8 to 9 a.m.



The Layered Approach to Hazard Recognition
Wednesday March 30, 2011 11 am to 12 noon

presented by

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Hazard Recognition

David F. Coble, MS, CSP
President, CTJ Safety Associates

- 36 years of safety and health experience (12 yrs. with NC OSHA, 24 yrs. in consulting)
- Master's Degree in Safety Management from Univ. of Arizona
- Visited nearly 3000 facilities in North America, Asia and Europe to identify and suggest controls for hazards
- Vice Chair of ANSI B11.19
- Administrator of ASSE Manufacturing Specialty

Goals

- Improve your employees' ability to recognize hazards and do their jobs right!
- Review the Fundamentals of Hazard Recognition.
- Practice five practical methods that are easy to use in the field to identify hazards.

Hazard Recognition

Write Down All of the Hazard Recognition Techniques That You Use In Your Work

Hazard Recognition

Hazard Recognition

The Importance of Codes and Standards to Hazard Recognition

Hazard Recognition

Hazard Recognition

Standards May Give Us...

- Explanations of Hazards
- Clues as to Where Hazards May Exist
- Control Measures
- If You Don't Know the Rules and Hazards – ASK!!

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Fundamentals of Hazard Recognition

- Hazard recognition is a management and employee responsibility
- Hazard recognition is a key element of "Doing the Job Right"
- Accidents are caused by both unsafe actions and unsafe conditions

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Most Common Unsafe Conditions

- Inadequate Guards and Devices
- Poor Housekeeping
- Projection and Impaling Hazards
- Congestion and Close Clearances
- Hazardous Atmospheres
- Hazardous Personal Attire (Hair, Jewelry, Clothes)
- Inadequate Fall Protection
- Improper Placement and Storage
- Poor Illumination and Loud Noise
- Unidentified Chemicals

Hazard Recognition

Most Common Unsafe Actions

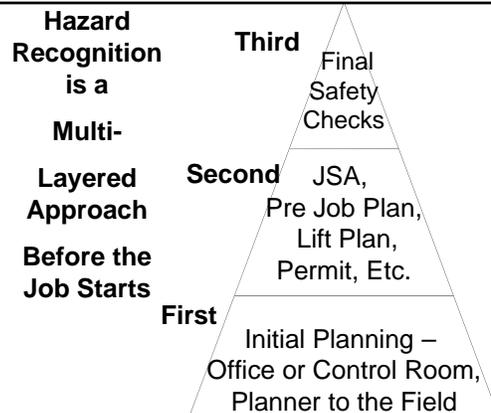
- Operating Equipment Without Authority
- Failure to Make Secure
- Operating at an Unsafe Speed
- Overriding Safety Devices
- Using Defective Tools and Equipment
- Taking an Unsafe Position
- Horseplay
- Being in the Line of Fire
- Not Keeping Eyes on the Task
- Taking Shortcuts
- Failure to Warn or Signal

Hazard Recognition

Fundamentals of Hazard Recognition

- Hazard recognition is a management and employee responsibility
- Hazard recognition is a key element of "Doing the Job Right"
- *Every company needs a variety of hazard recognition techniques*

Hazard Recognition



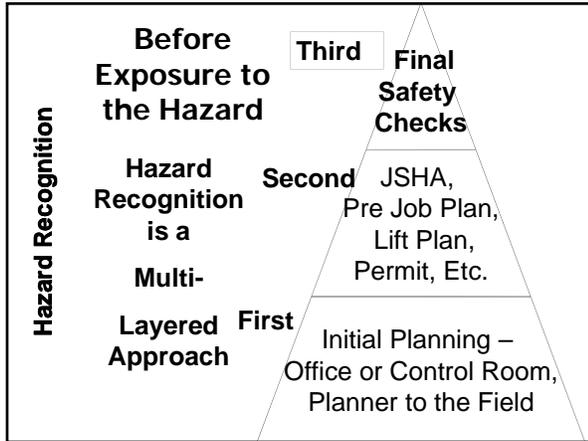
Examples of Formal Pre-Exposure Techniques – First and Second Layers

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- OSHA Required PPE Hazard Assessment [1910.132(a)]
- Lift Plan
- Job Safety Analysis
- Pre Job Briefing [1910.269]
- Management of Change
- Permitting

That's all good, but it's not enough...

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Why The Third Level Final Safety Checks?

Hazard Recognition

- Conditions may change – pinch points, tripping hazards, impaling hazards, blocked exits and emergency equipment, etc.
- New people get involved
- The weather can change
- Hazards may have been overlooked during the first two levels

Five Practical Hazard Recognition Techniques for Use in the Field

Hazard Recognition

The Final Safety Checks...

- Last Minute Safety Check

Last Minute Safety Check

Hazard Recognition

- Every job, every task, every operation must be planned and rechecked
- One simple field technique is a short multi-step process based on the following 4 questions:
 1. What am I about to do?
 2. What do I need to do this job and how will I do it?
 3. How could I or someone else get hurt?
 4. What am I going to do to prevent injury?

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Last Minute Safety Check Exercise

- What am I about to do?
- What tools, equipment and procedures do I need?
- How could I or someone else get hurt?
- What will I do to make sure someone doesn't get hurt?

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Five Practical Techniques for Hazard Recognition

The Final Safety Checks...

- Last Minute Safety Check
- **Ten Second Drill**

Hazard Recognition

Ten Second Drill

- Take 10 seconds to look at what is going on around you.
- How will your task impact others or yourself?

Hazard Recognition

Five Practical Techniques for Hazard Recognition

The Final Safety Checks...

- Last Minute Safety Check
- Ten Second Drill
- **Out-of-View Observations**

Hazard Recognition

Out-of-View Observations

- Many hazards lurk behind closed doors, in closets, in cabinets, in drawers, the other side of the wall.
- It's easy to spot issues within plain view.
- Take the time to look in cabinets, drawers, lockers, and under work benches and tables for out-of-plain-view hazards

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Sometimes, testing devices are required to find hazards not in plain view...

Five Practical Techniques for Hazard Recognition

The Final Safety Checks...

- Last Minute Safety Check
- Ten Second Drill
- Out-of-View Audits
- **The Key Question for Hazard Recognition**

Hazard Recognition

The Key Question of Hazard Recognition

Is there anything different?

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Key Question – Is there anything different?

- Different based on your education, your life experiences, your expectations of the workplace.
- When you see something different and you don't know if a hazard exists, ask someone who would know.

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And, Look for Clues...

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Five Practical Techniques for Hazard Recognition

The Final Safety Checks...

- Last Minute Safety Check
- Ten Second Drill
- Out-of-View Audits
- The Key Questions of Hazard Recognition
- *Pre Use Equipment Inspections*

Hazard Recognition

OSHA Inspections Requirements for General Industry and Construction

- 250 General Industry Inspection Rules
- 150 Construction Inspection Rules
- Abrasive Wheels
- Welding Machines
- Air Receivers...
- Wheel Rims

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Hazard Recognition

For a Complementary Copy of CTJ Safety's OSHA-Required Inspections Checklists...

- Leave me your business card with e mail address
- Write your e mail address and phone number LEGIBLY on a sheet of paper
- E mail me at davidcoblecsp@aol.com

Hazard Recognition

Summary

- Hazard recognition is a skill that requires training and persistence.
- Multiple levels of hazard recognition are needed.
- Every organization needs a variety of hazard recognition techniques including for those in the field.

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**Finally,
Please go back to your
initial list.

Can you add techniques?

Are there techniques that
need improvement?**

Hazard Recognition

Thank you!

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