HAZARD RECOGNITION TRAINING
Our goal is to reduce injuries, incidents and near misses by training our employees to better identify or recognize workplace hazards and eliminate or mitigate those hazards before starting a task.
During this training we will focus on:

- Hazard Recognition
- Line of Fire
- Risk Tolerance
- Intentional Risk Taking
- Factors That Influence Our Decisions
- Developing a Safe Solution or Plan
Section 1
Hazard Recognition
What does this mean to you?
What is Hazard Recognition?

By definition, a **hazard** is anything that by condition or behavior has the potential to cause harm to people, damage to property or environment, or loss to process.

**Recognition** - coming to understand something clearly and distinctly. A growing realization of the risk involved. A sudden recognition of the problems faced.
What is involved in this task that can hurt me or my co-workers?

- **Chemical hazards** – liquids, vapors, gases
- **Physical hazards** – mechanical, electrical, work area
- **Biological hazards** – mold, bacteria, stings and bites
- **Ergonomic** – lighting, repetitive motion, body position
- **Stress** – workload, distractions, conflicts
- **Behavioral** – line of fire, proper use of PPE or tools.
IDENTIFYING HAZARDS
IDENTIFYING HAZARDS

Was this an.....

- Unsafe condition?
- Unsafe act?
- Was the person distracted?

Did the person recognize the risk?
IDENTIFYING HAZARDS
(LINE OF FIRE)

5 Levels of Lucky
IDENTIFYING HAZARDS

What did the person do to keep from being hurt while performing this task?

Did the person Identify the hazards before starting the task?

Did the person recognize what was involved in this task that could hurt them?
IDENTIFYING HAZARDS (LINE OF FIRE)
Identifying Hazards (line of fire)

Was this an.....

- Unsafe condition?
- Unsafe act?
- Was the person distracted?

Did the person.....

- Identify the line of fire?
- What would have been the outcome if the person wasn’t distracted?
**Line of Fire** – Being in the way when the S%#T hits the fan!

**Line of Fire Avoidance** - worker recognizes the direction, speed, or force of hazardous energy, and then positions their body to avoid injury by the moving hazards.

**IDENTIFYING HAZARDS**

**LINE OF FIRE**
If you were going to loosen a bolt that was being difficult, you might put the wrench in position and use your leverage to pull it toward you.

You know there is a possibility the wrench may slip.

Do you think you can judge the direction, speed, and force of the wrench enough to avoid it?
An employee performs a pre-job and discusses the hazards associated with the task.

While performing the task, the employee notices that conditions have changed requiring a higher level of PPE, but continues because there is only a little more to do until the job is finished.

The task is completed, and the pre-job is signed and turned in.

Did the employee recognize the hazard?
Section 2

Risk Tolerance

What does this mean to you?
Risk - To act in spite of exposing yourself or others to the possibility of suffering injury or death.

Tolerance – To allow freedom of choice and behavior.

Examples- Can you think of a risk that you tolerate on a frequent basis here at work, or at home?
http://www.youtube.com/watch?v=v1lommQ_7OU
Risk Tolerance

• What did the driver in the video do to cause harm to the pedestrian?

• Did the driver recognize the risk before they performed the behavior?

• How often do you think the driver performed these behaviors without incident?
What did the pedestrian in the video do to cause harm to themselves?

Did the pedestrian recognize the risk before they performed the behavior?

*If the pedestrian recognized this as a risk, then why did he take the risk?*
An employee was building a small scaffolding to put in a blind in a confined area.

The scaffold needed inspected, but it was going to take longer to find someone to do the inspection then it was going to take to put in the blind.

The employee climbed the scaffold and put in the blind without incident.

Did the employee feel the risk was worth the reward?
Section 3

Intentional Risk Taking

What does this mean to you?
Work would be so much simpler if every choice and opportunity came with a "guarantee" attached to it.

We would feel safe and satisfied with all of our decisions. The problem is that taking a known risk has a certain percentage of failure involved.
Consequences that are.....

- **Soon**
  The consequence is immediate.

- **Certain**
  The consequence has a high probability.

- **Significant**
  The consequence is significant.

are a deterrent to intentional risk taking!
If you are a smoker and you weigh the enjoyment of smoking against the possible health effects, which one weighs the most?

• Is the enjoyment soon? Yes!
• Is it certain? Yes!
• Is that a significant experience? Yes!

Despite the information available there are millions of individuals who take the known risk and continue to smoke.
INTENTIONAL RISK TAKING

• Will you get sick and die soon?

• Is it even certain that you will die from smoking?

• If you did experience these consequences would it be a significant experience?

• Is it worth the risk? Millions of people think so!

How about the health risks?
INTENTIONAL RISK TAKING

Would you take the risk if the soon, certain, and significant consequence did out weigh the reward? Millions of people would not!
People generally know both what to do and what not to do regarding their safety.

With all of this knowledge of rules and regulations and safety do’s and don’ts, People still take known risks and...

**PEOPLE ARE STILL GETTING HURT!!**
Section 4
Factors That Influence Our Decisions

What are some of the things that drive your decisions?
Factors That Influence Our Decisions

Organizational Factors

- Leadership is stressing the right behaviors.
- The persons peers are performing safe behaviors.
- Safety systems are in place to support safe work practices.
FACTORS THAT INFLUENCE OUR DECISIONS
Personal Factors

Do you think the person's past work experience played a part in the decision to use a broken harness and not check the tanks?

Do you think the person saw value in the morning briefing?
FACTORS THAT INFLUENCE OUR DECISIONS
FACTORS THAT INFLUENCE OUR DECISIONS

○ Situational Factors
  ○ Do you think stress played a part in the incident?
  ○ Do you think the person thought he was in control right up until the incident took place?
FACTORS THAT INFLUENCE OUR DECISIONS
**Factors That Influence Our Decisions**

Where does **texting and driving** rate on the risk thought process scale?

Where does **driving on an icy road** rate on the risk thought process scale?

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Section 5
Developing a Safe Solution or Plan

What are some of the steps?
DEVELOPING A SAFE SOLUTION OR PLAN
What permit or safeguard was needed to minimize the risk?
Did the crane operator recognize the risk?
What did the van driver do wrong?
DEVELOPING A SAFE SOLUTION OR PLAN
Developing a Safe Solution or Plan

Four Steps Before The Task:

- Make sure you are trained in the proper use of all tools to be used?
- Review the job operating procedure if needed.
- Participate in a pre work discussion to identify potential risks.
- Bring all equipment and PPE needed to the job site.
Developing a Safe Solution or Plan

Four Steps During Task:

- Continually survey the work area for changing conditions.
- Identify new risks and evaluate the risk potential?
- Formulate a plan to complete the task as safely as possible?
- Following safe work practices.
Section 6
The Wrap Up
Takeaways:

• Life experience has made us all very good at hazard recognition.

• Life experience has increased our tolerance for taking risks.

• It seems like we never have time to do things right the first time, but we always have time to do them again.
Recognizing workplace hazards is only the first step in working safe.

Managing known risks will allow us to go home safe to our families every day.
Use your hazard recognition skills to put yourself in position to make a good decision.

Understand what is influencing you to make a poor decision.

Take safety into your own hands!

Make the choice to work safe!
Each year, nearly 5,000 American workers are killed on the job, and the sad part is, most of these fatalities can be prevented with basic, workplace safety precautions.

Iowa's Worker Memorial Day 2012 was an event held to honor workers that were involved in a fatal workplace incidents in 2011.
When you leave today, take the time to evaluate the jobs that you do on a daily basis, and develop a plan to perform that job as safe as possible.

Take responsibility for your safety, as well as your co-workers.

THANK YOU!