

**18th Annual Chicagoland Safety & Health Conference
September 18, 2006 – September 22, 2006
NIU-Naperville Education Center**

Workshop Overviews

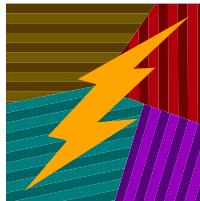


**Accident Investigation
(Presenter: Angie Loftus and Nancy M Quick)**

This interactive, participant-centered training offers you the opportunity to learn the primary reasons for conducting an investigation/analysis; discuss employer responsibilities, and conduct the six-step procedure to determine root causes.

Topic/Presentation Learning Objectives:

- Describe the primary reasons for conducting an accident investigation/analysis
- List the six-step accident investigation procedure to determine root causes



**Arc Blast and Arc Flash Hazards
Presenter: Carlos Gallegos**

This session will cover OSHA standards related to personal protective equipment. It will also cover safety related electrical work practices discussed in OSHA and NFPA-70E standards.

Topic/Presentation Learning Objectives:

- Identify the hazards associated with high amperage electrical work
- List OSHA's requirements for personal protective equipment use in performing complex electrical tasks
- Define the Hazard Risk Categories and arc flash boundaries discussed in NFPA-70E



Back Works and Body Mechanics (Presenter: Loren Wolf)

Professional athletes go through the rigors of their job under the watchful eye of the coach and trainer, practicing patterns of movement until they become second nature. Workers' bodies move in the same way as an athlete's. What does it take to become a back coach at your company? Learn how the back works when lifting and carrying and how to spot and correct detrimental movement. Learn how to remove the barriers to physical performance and coach your crew to score material handling successes.

Topic/Presentation Learning Objectives:

- To provide basic anatomy and function of the back as it relates to body mechanics
- To outline the major causes and risk factors that may lead to back injury
- To provide information on proper lifting techniques and body mechanics



Biological Hazards & Control from Hot Tubs to Salad Bars (Presenter: Steven Lipton, M.Ed. LEHP, CFSP)

This course will introduce common and emerging biological hazards in water and food sources which can affect the public health. Both accidental contamination and intentional bioterrorism will be covered.

Topic/Presentation Learning Objectives:

- Identify several important biological contaminants which are found in food and water sources
- Identify sources for these pathogens
- Identify control measures for these pathogens and challenges in implementation



Construction and Indoor Air Quality (Presenter: David Regelbrugge, CIH, CSP)

Construction in or around occupied buildings can create a whole host of indoor air quality concerns, including dusts, odors and potential exposures to mold, asbestos, lead and other hazardous building materials. This presentation will focus on actions that can be taken to prevent indoor air quality issues during construction projects.

Topic/Presentation Learning Objectives:

- What to do if IAQ problems occur during a construction project
- Identifying common and not so common IAQ construction concerns
- How to prevent IAQ issues during construction projects



Disaster Preparedness (Presenters: Michael Fagel, Richard Vulpitta)

Richard Vulpitta will discuss the importance of management/employee commitment, training and holding drills for those charged with emergency response planning. If time permits, real life emergency examples will be used.

Topic/Presentation Learning Objectives:

- The need for commitment of both management and employees
- Common problems of emergency training
- How to make sure your plan is effective by using drills



Effective Ergonomics Programs (Presenter: Dana Root, MS, CPE)

Why do ergonomics programs fail? What does a successful program look like? This session will cover how to develop and manage an ergonomic process, how to manage ergonomic issues, and how to set up and medically manage musculoskeletal disorders. Common obstacles such as supervisor involvement, workplace politics, healthcare provider inexperience with occupational issues and employee participation will be discussed. Effective strategies will be shared. Participants should bring their own challenges and success stories for discussion.

Topic/Presentation Learning Objectives:

- Examine the elements of ergonomics programs
- Review the risk factors common in your facility
- Examine the potential barriers in setting up the process



Effective Hearing Conservation (Presenter: Dr. Robert Beiter)

This presentation will cover the essentials of an OSHA compliant hearing conservation program. In addition to covering the OSHA requirements, the realities of hearing conservation in the industrial setting will be discussed. These realities include what is needed to make the program truly effective rather than just meeting the OSHA rule. Realities about the obvious and not so obvious documentation needs, hearing protection, noise measurement procedures/reports, hearing test administration/analysis and other issues will be covered.

Topic/Presentation Learning Objectives:

- To create an understanding that effective hearing conservation programs occur from the top down
- To clearly show that hearing conservation is far more than hearing testing
- To better understand the essential sense of hearing



Emergency Response Planning (Presenter: Richard Vulpitta)

This presentation is a must for those charged with emergency response planning. This presentation will highlight the basics of emergency planning, what is required by OSHA, setting up a chain of command, and training and holding drills. Real life emergency examples will be used to drive home the importance of good planning, training and communications.

Topic/Presentation Learning Objectives:

- Basics of on-site emergency planning
- Common problems of emergency planning
- How to make sure your plan is effective



Establishing an Effective Safety and Health Committee (Presenter: Skip Irwin)

What makes a Safety and Health Committee effective or ineffective? Successes and failures of the site committee will also be discussed and ideas will be presented to help others improve their effectiveness.

Safety Action Team members are elected and receive training on their role in the committee and in problem resolution. Subteams are used to resolve more involved issues. Action vs. inaction.

The goal is “NOBODY GETS HURT”.

Topic/Presentation Learning Objectives:

- Understand several best practices that can help make safety committees effective
- Be able to take back new ideas to attendees work sites and implement them to improve committee effectiveness
- Understand one method of problem resolution



Excavation

(Presenter: John G. Rahilly)

Definitions, protective systems, and trigger numbers are some of the topics that will be discussed in this excavation track. There will be a preview of the Construction Safety Council's (CSC) interactive online Excavation Training for the Competent Person which will be available on CSC's website, free of charge, for two years. (This program was developed with funds from Susan Harwood Training Program Grant #46E4-HT03.)

Topic/Presentation Learning Objectives:

- Be able to understand and recognize the specific hazards associated with excavations in the construction industry.
- Be able to evaluate excavation hazards and select hazard control measures
- Be able to understand and recognize the corresponding subpart P requirements



Fall Protection

(Presenter: Morgan Neff)

This Intermediate Fall Protection presentation includes:

1. Changes to Fall Protection Standards
2. The ANSI (American National Standards Institute) construction standard: ANSI A10.32, launched in 2004, has a number of changes from the older construction standard. These changes will be discussed. Also the ASI Z359.1 standard is in the process of being re-written. We will discuss the updated and proposed changes to this standard and how all these changes to the ANSI standards may impact end-users and company fall protection programs.
3. Trends in Standards and Regulations: In general, where standards and regulations are going.
4. New Fall Protection Product Trends: What new concepts are manufacturers developing to meet the changing and developing needs of industry? How new fall protection equipment and concepts may change existing approaches and programs. Fall protection rescue and what is required to develop a rescue program.

Topic/Presentation Learning Objectives:

- Review the ANSI A10.32 standard from 2004
- Review the proposed new family of ANSI Z359 standards
- Discuss trends in standards
- Discuss intermediate fall protection solutions: leading edge work, horizontal lifelines, and rope access
- Discuss concerns of Fall Protection Rescue and how to start to develop a rescue program



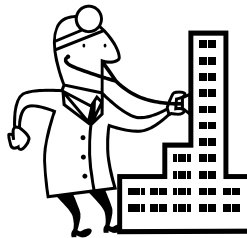
Fatality and Catastrophes Investigations – What OSHA Expects (Presenter: Anthony M Towey)

The presentation will cover the 6 keys to an adequate investigation related to timeliness of the investigation, securing the scene, evidence gathering, causal factors, SHMS breakdown and corrective action. The speaker will include OSHA protocols and procedures when conducting an investigation and the leading causes of fatalities at the workplace.

Topic/Presentation Learning Objectives:

By the end of the session, the learner will be able to:

- List the 6 key components of an adequate investigation
- Describe the four elements of a safety and health management system
- List the 10 leading causes of fatalities at the workplace



Forensic Investigations – Architectural & IEQ (Presenter: Gary N. Crawford, CIH)

This presentation will provide an overview of mold and the associated evolution of health concerns. Explanations will be provided on the causes of microbial growth in buildings and forensic investigations that find the cause and origin and what can be done to prevent and correct it.

Topic/Presentation Learning Objectives:

- Why and how mold manages to grow in buildings
- How building design, construction and maintenance affects indoor environmental quality
- How forensic architectural investigations help solve environmental health issues



How Close is Too Close? **(Presenter: Richard Cassetto)**

This presentation will provide a review of appropriate working distances around exposed energized electrical lines and equipment and precautions the utility and employer need to take to keep employees safe.

Topic/Presentation Learning Objectives:

- Safe distances to work
- How to contact the utility
- Plan for electrical hazards



How ISO 14001 Environmental and OSHAS 18001 Health and Safety Management Programs can Improve Organizational Performance **(Presenter: Rodney Dahlin)**

ISO 14001 (Environmental) and OSHAS 18001 (Health & Safety) are internationally adopted standards for implementing management systems. Organizations that voluntarily develop, implement and maintain these systems invariably improve the performance of their environmental and/or health & safety programs.

Topic/Presentation Learning Objectives:

- Understanding the basic concepts of both ISO 14001 and OSHAS 18001
- Understanding how both standards require the organization to be pro-active in determining their legal compliance responsibilities
- Understanding how successful implementation of these standards can improve the organization's environmental and health & safety performance

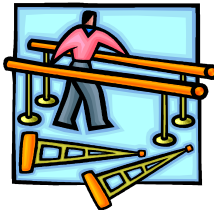


IH Awareness Training for Supervisors and Safety Personnel (Presenter: Eugene Satrun)

When a job is set up or a pre-job safety review is conducted, the people doing it need to have a basic understanding of health hazard evaluation in addition to safety. Do you know what health risks may exist on a job? Do you understand exposures, PPM, STEL, air flow patterns, dBA, physical stressors, exposure assessment part of JSAs, and more? While not making anyone an expert, this program will help attendees identify basic potential health hazards on a job.

Topic/Presentation Learning Objectives:

- Understand the potential impact of chemical and physical agents on the short and long term health of workers
- Be able to recognize when there may be a potential for excessive exposure, how to further assess and identify additional actions that may need to be taken
- Be able to effectively do a pre-job safety review which evaluates health hazard potentials



Illinois Workers' Compensation Law Update (Presenter: Gene Keefe)

In 2005-2006, Illinois workers' compensation law and practice changed dramatically with the enactment of HB2137 and SB1283. This presentation will provide a down-to-earth discussion of how the major and minor changes will affect your handling of claims and approach to workers' compensation issues in daily practice.

Topic/Presentation Learning Objectives:

- Provide a clear understanding of the new law
- Outline the impact of the law on safety and other professionals approach to WC
- Give you clear guidance in dealing with claimants, claims handlers, safety protocols and other issues relating to your day-to-day work.

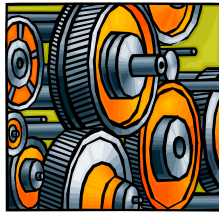


Industrial Hygiene Monitoring Instrumentation (Presenter: Rex W. Moore)

This presentation will address basic and advanced instrumentation available for conducting chemical (dust, vapors, gases and fumes) and noise exposure assessments including both time weighted average and short term samples and industry accepted calibration techniques. The limitations and problems associated with the various instrumentation/methods will be addressed.

Topic/Presentation Learning Objectives:

- Instrumentation available for chemical and noise exposure assessment
- Proper calibration techniques
- Limitations and problems



Machine Guarding (Presenter: George Yoksas)

Fundamentals of machine guarding will include all types of machines and guarding solutions including presses of all kinds, power transmission, metal forming and robotics. Discussion will include hazard recognition, “hard” guards, and guarding devices.

Topic/Presentation Learning Objectives:

- Identify machine hazards
- Protection and guarding methodologies
- OSHA machine guarding standards



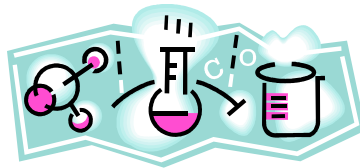
Medical Preparedness Planning: Understanding Triage (Presenter: Tim Conley)

Preplanning for medical emergencies is a critical part of any good disaster plan. In a major disaster there most likely will be many injured people needing medical treatment. Who gets treated first, how is it decided, where will triage be, what role may site personnel play?

Understanding triage will help answer these and other questions and will help you in planning for a disaster at your site or in the community. The success of the IMERT field hospital was due in large part to an effective triage system that was put in place.

Topic/Presentation Learning Objectives:

- Understand triage and its role in a medical disaster
- Be able to integrate plans for triage into site disaster plans
- Be able to assist incoming emergency responders at a site or community disaster as they establish triage



Meth Lab Awareness (Presenter: Trooper Michael Kuehl)

Presentation highlights will focus on methamphetamine awareness and the exponential spread of meth cooking and meth use, recognizing meth laboratories, hazards of meth labs, and the effects of meth on users, children in meth homes, and on the community.

Topic/Presentation Learning Objectives:

- Develop a basic understanding of the manufacturing of methamphetamine
- Identify the equipment/ingredients utilized in the manufacturing process
- Become aware of hazards of a methamphetamine laboratory



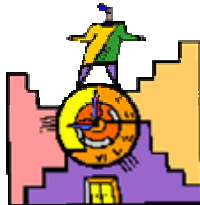
Mock OSHA Inspection

(Presenters: Larry Joswiak, John Maronic, Brad Robey and Gary Weil)

Are you prepared for an OSHA inspection? The mock OSHA inspection will be conducted by OSHA Compliance Officers for a “true to life” example of what to expect during an OSHA inspection. In addition to the mock inspection, this session will include a general discussion and “Q & A” period in OSHA compliance and inspection issues.

Topic/Presentation Learning Objectives:

- To provide a basic understanding of the OSHA inspection process



Multiple Site Disaster Recovery Plan

(Presenter: Michael P. McGawley)

Every year emergencies take their toll on business and industry – in lives and dollars – but something can be done. Business and industry can limit injuries and damages and return more quickly to normal operations if they plan ahead. A business that has to close down completely while the premises are being repaired may lose out to competitors. A quick resumption of business after a disaster is essential. This presentation will provide a common sense approach to recovery operations in the aftermath of a disaster.

Topic/Presentation Learning Objectives:

- Understand why a Disaster Recovery Plan (DRP) is necessary for all organizations
- Familiarize yourself with the contents of a DRP and the role it will play in expediting the return of a business back to its pre-disaster operations
- Learn where to find resources to assist you in the development of your DRP

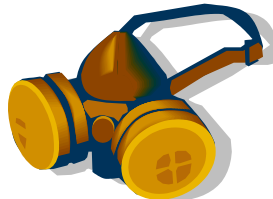


The National Incident Management System, IS 700 **(Presenters: James H. van Wageningen and Christine Petitti)**

A tutorial will be presented in plain language, assuring first time exam success on the National Incident Management System (NIMS) (IS 700) course. This presentation provides an explanation and discussion of the needs for a common system spanning all emergency response personnel. NIMS and its primary sub-system, the Incident Command System (ICS), will be covered in a clear language manner, and all the pieces will be linked together for the attendees. A full review of the on-line exam will follow the presentation.

Topic/Presentation Learning Objectives:

- Understanding the need for NIMS and ICS
- Understanding the operating structures of ICS and where you fit in the overall picture
- Providing the basis for broader understanding of NIMS and the situations it addresses



Respirator Use on Work Sites **(Presenter: Ed Gorman)**

This presentation reviews respirator usage in the construction industry. It includes risk assessment to determine need, type of respirator needed and OSHA requirements.

Topic/Presentation Learning Objectives:

- What OSHA requires
- Types of respirators
- How to determine type required for specific job



Risk Management for Safety Professionals (Presenter: Rose Kugler)

This presentation targets risk management issues for which loss control professionals may not have direct responsibility, but which the professional needs working knowledge and understanding of. Provides in-depth coverage on other aspects of risk management that may require less involvement, such as contractual indemnification, risk financing techniques, insurance and claims management.



Safety and Health Program Management Systems (Presenter: Mary Leikness)

This presentation will help you to:

- Take a proactive approach to managing safety and health – don't be reactive
- Look at the underlying causes of accidents and illnesses
- Organize your management approach to fit your specific objectives
- Provide leadership to keep employees working in a safe and healthy fashion
- Eliminate hazards and improve behavior

Topic/Presentation Learning Objectives:

- Elements of a comprehensive Safety & Health Management System
- Evaluation tools and procedures
- Development through sample programs



Safety By Design – An Architect’s Perspective (Presenter: Mike Lamberty)

This presentation will demonstrate how the “conscious” design of a project can positively affect the safety of the construction contractors. Means and methods of construction are everyone’s business!

Topic/Presentation Learning Objectives:

- A well planned project is a safe project
- If you see something, say something
- Not all architects have their “Heads in the Clouds”



Safety Performance Metrics: Leading vs. Lagging – What to Use? (Presenter: Bob Frank)

Safety Professionals are achieving slow but steady progress in the use of meaningful safety metrics for organizations. This presentation will highlight the speaker’s experience in developing and integrating safety business metrics into the organization, versus the tradition (but still useful) OSHA lagging indicators. The speaker will share his successes and challenges regarding the use of safety metrics.

Topic/Presentation Learning Objectives:

- Overview of safety performance metrics: past, present and future
- Balanced Safety Scorecards: they can work
- Peer benchmarking metrics



Scanning for Safety **(Presenter: Phil Pekron)**

Performing a physical inspection of a facility has many aspects. This presentation will provide a format to logically identify hazards in the workplace and avoid common omissions. It will include identification of actual hazards from fieldwork.

Topic/Presentation Learning Objectives:

- Effective planning for a physical inspection
- Identify common workplace hazards
- Provide logical approach for presenting results

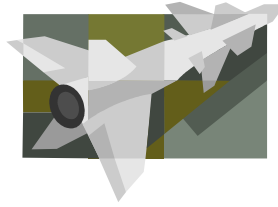


Superbugs Beware **(Presenter: Nancy Hauter)**

Superbugs are emerging all over the world. Drug resistant organisms, Avian Flu and West Nile Virus are just a few emerging threats to public health. These pathogens occur both in the community and the workplace. In this session, we will discuss the vehicles of transmission, case studies and methods of prevention.

Topic/Presentation Learning Objectives:

- Discuss the modes of transmission of various infectious diseases
- Examine case studies of emerging infectious diseases
- Discuss methods of disease prevention



**WMD – Bio-Terrorism Threats and
Critical Infrastructure Protection, Food and Agricultural Threats
(Presenter: Michael J. Fagel, Ph.D., CEM)**

Weapons of mass destruction, food supply and critical infrastructure will be discussed at this multi-faceted presentation. A frank discussion of potential vulnerabilities to our nation's critical infrastructure, including food supply, will be discussed. WMD, biological threats and planning topics will be presented here.

Topic/Presentation Learning Objectives:

- Understand WMD and its impact on the nation's food supply
- Discuss Homeland Security Presidential Direct HSPD-9 and HSPD-7
- Define critical infrastructure and key resources
- Discuss emergency planning concepts for facility protection



**Welding Health Exposure and Control
(Presenter: Dennis Cesarotti)**

Case studies of successful and unsuccessful ventilation applications, pertaining to welding and thermal cutting applications, will be provided.

Topic/Presentation Learning Objectives:

- Identify common types of welding and thermal cutting processes
- Anticipate the potential health and safety issues
- Develop an exposure assessment program
- Evaluate and/or recommend effective ventilation techniques
- Identify issues that need to be addressed during welding and cutting in confined spaces



Whistleblower Statutes and Investigations – Employer/Employee Rights & Responsibilities under OSHA (Presenter: Sherrill F. Benjamin and Mary Ann Howe)

This presentation will provide an overview and general knowledge of the 14 Whistleblower Acts regulated by DOL-OSHA, employers and employee's rights and responsibilities and an overview of investigative procedures, activities and role of DOL-OSHA and the Whistleblower Investigator.

Topic/Presentation Learning Objectives:

- Provide a general knowledge of the Whistleblower Acts regulated by DOL-OSHA
- Provide a general knowledge of employer and employee rights and responsibilities under the 14 acts regulated by DOL-OSHA
- Provide a general knowledge of investigative procedures, activities and role of DOL-OSHA and the Whistleblower Investigator



Workforce Diversity – Supervising Safety with Hispanic Workers (Presenter: Isbelia Lugo)

This presentation discusses simple, yet highly effective ways to improve the quality of safety training and communication and relationships with employees of Hispanic cultural backgrounds.

Train with an Eye to Cultural Differences: Recognizing cultural differences and using them in a positive way are important parts of breaching the language barrier. Some ethnic groups respect older people more than younger people. Some are matriarchal or patriarchal, and these differences need to be considered when selecting safety trainers.

Among some groups, machismo is a strong factor that can influence whether a worker will wear protective equipment or take unwise risks. Supervisors need to have some familiarity with the cultural traits of their workforce. This means that not only the workers, but their supervisors and in larger companies, human resource personnel, may need to learn a second language and become more familiar with other cultures to be fully effective in their jobs.

Topic/Presentation Learning Objectives:

- Illustrates how cultural differences may impact behavior
- Increases awareness of the impact of culture in the workplace
- Demonstrates skills for managing a culturally diverse workplace