Basic Electrical Safety with Application of NFPA 70E

Sponsored by the Tennessee Valley Section of the American Industrial Hygiene Association (TVS-AIHA)

When: May 14, 2007

Time: 8:00 am – 4:30 pm

Where: Pollard Auditorium, Oak Ridge, TN

Instructor: Paul Zoubek, CSP, CIH, Occupational Services Inc, San Diego, CA

Registration deadline: May 1, 2007

Cost: $225 for TVS-AIHA Members, $250 for non-members

Learning Aids: Please bring a hand held calculator with square root function. A copy NFPA's *70E: Electrical Safety in the Workplace,* 2004 Edition, and course handout will be provided.

Basic Electrical Safety, a Professional Development Course, was presented at the 2002, 2003, 2004, 2005 and 2006 American Industrial Hygiene Conference & Exposition and the ASSE PDC in 2005 and 2006! The 5-year running sold out course **ranked in the top ten PDC's in 2005 and 2006 at the AIHce**, and received positive feedback. Here are some of the comments from the course evaluations:

- "Workshops are very instructive, they really make a difference"
- "I felt this was an excellent program. The course was interesting and helped me meet my goals. I liked the labs and demos"
- "Just what I wanted. A very basic course in electrical safety. Good Adult learning concept use.
- "Instructor involved attendees with hands-on exercises. Nice job!"
- "Coverage of NFPA 70E was excellent. Table top work greatly enhanced understanding. Very good class!"
- "If your job responsibilities include electrical safety, this is the course you need!"

Introductory 1.0 Safety CM Point (ABIH Approval #07-112)/0.625 COC point

For more information call Mark Smith at (865)974-1965.

Objectives: Upon completion, the participant will be able to:

- Gain a fundamental understanding of engineering design principles and management principles of electrical safety including the application of OSHA's newly adopted NFPA 70E electrical safety requirements
- Discuss the basic principles of electricity including electrical units and basic circuitry
- Identify the hazards of electricity to the human body
- Implement engineering control principles of electrical hazards (including hazardous locations, wiring protection and design, grounding, and workspace).
- Explain the requirements when working near energized equipment when utilizing PPE, and approach boundaries
- Identify the regulatory requirements for electrical safety under OSHA and the NEC, (NFPA 70E)
- Recognize the safety requirements for electrical equipment, temporary wiring, and cord and plug equipment
- Implement the training requirements for qualified persons
- Develop a company electrical safety program
- Demonstrate the skills learned in this course through "hands-on" laboratory sessions on basic principles and reverse polarity.

Description: Worker injuries resulting from lacking or inadequate electrical safety controls can be debilitating and even fatal. It is the responsibility of the health and safety professional to recognize electrical hazards and suggest methods of control. Basic electrical safety is an introductory course for the safety professional. It provides the professional with how-to issues as well as a unique, direct focus, and explanation of principles and visual skills. The course's content covers the basic principles to comply with OSHA and NEC standards. The course's objectives provide a chronological sequence for implementation of electrical hazard control and management.

CUT HERE AND RETURN 

I would like to register for the Basic Electrical Safety course on May 14, 2007.

Name _____

Phone (day) _____ (evening) _____

Email address _____

Company _____

❒ I am a TVS-AIHA member $225.00

❒ I am not a TVS-AIHA member $250.00

Please make your check payable to: *TVS-AIHA*

Mail your payment to: Mark Smith
118 Bookwalter Dr.
Knoxville TN 37912

Basic Electrical Safety Course Schedule
2007

Morning
(Engineering Principles)

8:00-9:00	Principles of Electricity
9:00-9:20	Hazards of Electricity
9:20-10:15	Wiring Protection & Design
10:15-10:30	**Break**
10:30-10:45	Grounding Engineering
10:45-11:00	Workspace
11:00-11:45	Hazardous Locations
11:45-1:00	**Lunch (& optional lab sessions)**
11:45-12:00	Basic Principles
12:00-12:15	Reverse Polarity
12:30-12:45	Basic Principles (repeated)
12:45-1:00	Reverse Polarity (repeated)

Afternoon
(Management Principles)

1:00-2:30	Personnel Protection Personal Protective Equipment Approach Boundaries
2:30-3:00	Electrical Safety Program
3:00-3:20	**Break**
3:20-3:45	Training Requirements
3:45-4:15	Cord & Plug Equipment, Temporary Wiring & Hand Tools
4:15-4:30	Electrical Equipment & Miscellaneous Work Practices