

## Low Voltage Electrical Safety Training for the Qualified Worker

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### OVERVIEW

Electrical dangers such as shock, electrocution, arc flash, and arc blast will always be present on the job, but proper training and safety strategies can minimize the likelihood of injuries and fatalities. I offer real world, hands-on experience in solving the electrical safety, training and consulting challenges of your business. Working closely with you, I can provide consulting expertise to improve your electrical safety programs, the quality of training provided to your employees, and assist in developing effective work methods and procedures that meet the requirements of Standards for Electrical Safety in the Workplace (NFPA 70E) and Electrical Safety Related Work Practices (1920.331.335).

The course consists of two days classroom training and an optional third day, which includes a “hands on” session, which requires the students to demonstrate that they can identify the hazard and properly select the appropriate PPE for the given task.

For an employer to certify that an employee is qualified the employee must demonstrate their proficiency in the work practices that they are expected to perform. The requirement for establishing proficiency is intended to ensure that employers do not try to comply with the training requirements by simply handing training manuals to their employees. It is important for employers to take steps to assure that employees comprehend what they have been taught and that they can perform the electrical safe work practices that apply to their work assignments.

By drawing from personal experience, the instructor will answer important questions regarding arc flash hazard assessment, including, but not limited to:

- What regulations require arc flash assessment?
- What methods are available to perform arc flash hazard analysis?
- Are all my employees exposed?
- What type of work exposes an employee to a reasonable likelihood that an arc flash could occur?
- Should I use the table method or calculation method?
- After the assessment, what clothing is required?
- What information is required to given to my contractors?
- Are my work practices compliant with OSHA?
- What are the circumstances for performing energized work?

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- Do I need a work permit for all electrical work?
- What is “normal operation” of equipment?

- Can employees work alone?
- What is the difference between a shock and an arc boundary?
- Are arc flash labels required? What information is required to be on them?

#### LEARNING OUTCOMES

- Discuss definitions
- Discuss arc and shock hazards of electricity
- Define shock and flash boundaries
- Discuss selection and use of safe work practices
- Discuss personal protective equipment (PPE) for shock and arc flash protection

#### FORMAT

This program can be tailored to meet the client's requirements for a one-day workshop or a 60-90 minute breakout session.

#### ABOUT MIKE BAHR

When you hire an electrical safety consultant you need someone who not only knows and understands the requirements of OSHA and NFPA 70E, but know how the regulatory and consensus standards must be implemented to achieve compliance and eliminate workplace injuries.

Mike Bahr has been a safety professional in the electrical industry for over 30 years. After being injured in an electrical accident in 1985, Mike has dedicated his career to the safety profession and has specialized in Arc Flash Safety. Mike has developed and presented an extensive body of arc flash training worldwide and is a former principal member of the NFPA 70E committee (Standard for Electrical Safety in the Workplaces). Mike also served as the principal investigator for the development of the Department of Energy (DOE) electrical safety program.

**For more information, contact Mike:**

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