



# Protect your workers. Protect your facility.

**Contact your Hazmasters account rep today to discuss your safety needs or email us at [connect@hazmasters.com](mailto:connect@hazmasters.com)**

## **Are you CSA Z462 Arc Flash compliant?**

The CSA Z462-2018 Workplace Electrical Safety Standard, specifies that incident energy analysis needs to be updated when changes occur in the electrical distribution system. At a minimum, the standard states that system data shall be reviewed for accuracy at intervals not to exceed 5 years. The standard also requires that workers receive periodic retraining in safety-related work practices and standards not to exceed 3 years.

Hazmasters, in partnership with Eaton Power System Safety experts, offer a comprehensive suite of safety solutions for workers and equipment including Arc Flash incident energy analysis and re-evaluation, and CEU (continuing education unit) accredited Arc Flash training.

**WHEN: February 25th, 2020**

**COST: \$300 per person - ask us about group rates!**

**Instructor: George Baier, P. Eng.**

**Email [connect@hazmasters.com](mailto:connect@hazmasters.com) or call 877-747-7117 for more info.**

# Electrical Safety Training

Industry leading. Comprehensive. Practical.

*Hazmasters is proud to partner with Eaton to delivery top-of-the-line safety training - when you train with Eaton you are training with the power system safety experts.*

## Who should attend:

Electricians, operators, maintenance, technicians, engineers, managers, supervisors

## Here's what's included:

- Continuing Education Units (CEU)
- Professional Development Hours (PDH)
- Meals (Breakfast and lunch)
- Evaluation quiz
- Training materials

## Training Agenda

- How to improve human performance through a hierarchy or risk controls:
  1. Elimination
  2. Substitution
  3. Engineering Controls
  4. Awareness
  5. Administrative Controls
  6. Personal Protective Equipment (PPE)
- CSA – Z462 Standard
- Understanding the science behind Arc Flash
- Thorough review of PPE options
- Practical safety practices and procedures for working on or around electrical equipment
- How to identify and reduce electrical hazards
- Review industry leading safety best practices and how to implement
- Real world situational review and approach

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# What you can expect

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## Safety Topics Covered:

- Hierarchy of risk controls
- Existing standards and applicable law
- Arc Flash and electrical safety overview
- Identification of Electrical Hazards
- Risk Assessment and Risk Mitigation
- Shock Protection Boundaries and Incident Energy Calculations for AC and DC
- Safety Related Work Practices for AC & DC
- Worker training requirements, and practical approaches to defining authorized workers
- The role equipment condition plays in safety
- New mitigation techniques to reduce the Arc Flash Hazard
- Arc Flash Boundary
- Understanding the role Personal Protective Equipment (PPE) plays in electrical safety
- How to determine and select appropriate PPE
- Arc Rated Protective Equipment (PPE)
- Proper use and Care of your PPE
- Eliminating or Controlling Hazardous Energy
- Eliminating or Reducing Worker Exposure to Hazards
- Safety Practices and Procedures for Work on and around Electrical Equipment
- Evaluation quiz & certificate

## Upon completion, attendees will know:

- How to implement the hierarchy of risk control methods into the risk assessment procedure
- CSA Z462 best practices for shock and arc flash hazards
- Safety training requirements from CSA Z462 for qualified electrical workers
- CSA Z462 shock protection boundaries and be able to describe their use
- How to choose, use and take care of PPE for shock protection
- Steps to perform a shock hazard analysis
- The arc flash hazard and the injuries that can result
- Identify when an arc flash hazard exists
- How to identify the difference between Hazard and Risk
- Incident energy and list the three main variables which affect it
- The difference between “flame-resistant” clothing and “arc rated” clothing
- How to select, use and take care of PPE for arc flash hazards
- Using the “Arc Flash PPE Category Method” to select arc flash PPE
- Steps to perform an arc flash hazard analysis
- How to prepare to work safely
- Eliminating or Controlling Hazardous Energy
- Eliminating or Reducing Worker Exposure to Hazards
- How to Establish an Electrically Safe Work condition

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