

# Understanding the NFPA 70E Standard Electrical Safety in the Workplace

## **Course Overview:**

An Electrical Safety Code Workshop on the NFPA 70E Standard for Electrical Safety in the Workplace with specific references to the Canadian Electrical Code.

## **Course Topics:**

- Electrical Hazards in the Workplace
- Arc Flash and Arc Blast
- Safety Related Work Practices
- Safety Related Maintenance Requirements
- Requirements for Special Equipment
- Safety Related Installation Requirements
- Electrical Safety Related Work Boundaries
- Selection of Appropriate Personal Protective Equipment
- Practical Applications of the NFPA 70E Standard

## **Course Purpose:**

- Learn using applicable regulations, codes and established standards for reference with respect to work practices/procedures ensure electrical safety in the workplace.
- Raise awareness of the safety hazards when working on or near electrical equipment in the workplace.
- Focus on the specific electrical hazard of arc flash/blast, their mechanisms and underlying causes.
- Recognize the potential electrical hazard in the workplace and apply work practices and procedures that will protect the worker from severe injury, ie, appropriate PPE
- Review practical means of applying the principles of the NFPA 70E Standard from an engineering and design standpoint.

For more information on “Understanding PPE Requirements NFPA 70E.” Visit website [www.esasafe.com](http://www.esasafe.com). Feel free to email Barry Buchanan of ESA at [barry.buchanan@electricalsafety.on.ca](mailto:barry.buchanan@electricalsafety.on.ca) if you have any questions about the standard and it’s implementation.

Member Testimonials, after attending the Spring 2008 course on 'Arc-Flash':

**“After taking this most dramatically presented course it made me realize that even as a Master Electrician by trade, I'm probably still here and intact more by the grace of good fortune than knowledge and intelligence. Barry's most graphic and pointed lecture reminded me of the many times I had been in exactly the same situation or worse as the workman injured or killed in the examples.**

**As a Manager of Operations in a motor shop and site service atmosphere I thought our systems and practices were second to none. Safety in the workplace is paramount in my world but after witnessing and participating in this course I realize we've got some serious work to do.**

**There is an excellent movie on the ESA website ([http://esasafe.com/Contractors/ets\\_004.php?s=24](http://esasafe.com/Contractors/ets_004.php?s=24)) and I will be showing to my employees tomorrow afternoon.**

**We will be implementing changes to our test and operating practices immediately.**

**Every motor shop needs to get to this training and get it now. I hope that EASA runs this course again and if so I will be sending my people.**

**If you have any questions regarding this or any matter pertaining to Ainsworth please contact me.”**

**Ken Brisbois, Manager of Operations**  
Ainsworth Inc., Cambridge

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**“I talked to our guys who attended the seminar and they were very impressed with the Presentation and the Instructor. It has definitely heightened their respect for the dangers of electricity and the devastating consequences of Arc Flash. We did not have a written Lock Out Procedure so we have implemented Chapter 10 from the EASA EMPLOYEE SAFETY GUIDE for the time being. Thought this might be of interest to the rest of the members who are in the same situation.**

**Danny Kaupp**  
Kaupp Electric, St. Catharines