

# Electrical Safety Training



## Standard Electrical Training Services

Standardized electrical courses are available at your facility.

**Introduction to Arc Flash Hazards** – This is a 2, 4, or 6-hour seminar ranging from an overview to a thorough session. The objective is to present an overview of 70E and to explain selected OSHA and 70E requirements relevant to arc-flash and fusible protection. This seminar also discusses real world examples.

**Arc Flash Safety for Equipment Installers** – This 6-hour seminar presents an overview of 70E requirements relevant to arc flash for individuals that will be working within their customers' facilities. The NFPA Electrical Program Safety Book is discussed in reference to different facility safety programs. This gives a basic understanding of arc flash hazards and the value of safety programs. Relevant laws, codes and standards are discussed.

**General Electrical Safety for Shock, Arc Flash, and Arc Blast** – This 6-hour seminar combines arc flash safety with shock hazard safety for a full understanding of electrical safety. It begins with laws, codes, and standards, then progresses to a detailed explanation of the hazards, and ends with PPE and test equipment.

**Complete Arc Flash Safety** – This is a two or three day seminar. It introduces OSHA, key national standards, and standards development organizations. The seminar gives understanding of electrical hazards, proper work practices, and related grounding considerations. It also reviews how PPE and ground fault items can increase safety.

**2008 National Electrical Code Over-Current Protection Updates** – This 4-hour seminar reviews the most important code changes pertaining to overcurrent and overvoltage protection. These topics include Short Circuit Current Ratings (SCCR), interaction with UL 508A, safety labeling requirements, surge suppressors, selective coordination requirements, and other changes affecting overcurrent ratings of equipment.

**Short Circuit Current Rating (SCCR) calculations for Panel Builders** – This 4-hour program explains to panel builders the whys of SCCR requirements. It includes examples of calculating SCCR in accordance UL 508A and typical solutions to upgrading panel SCCR ratings.

**Use of Power Distribution Fuses for 600 Volts and Below** – This 4-hour seminar is intended to teach the fundamentals of selecting fuses for power distribution applications including motors and transformers 600 volts and less. It covers normal applications, UL fuse types, and gives an appreciation of the strengths and limitations of fuses.

**Basics of Selective Coordination** – This 4-hour program explains the National Electrical Code requirements for selective coordination. It gives the student a conceptual understanding of selective coordination. It reviews some examples using time current curves with circuit breakers and fuses for NEC compliance.

## Customized Electrical Training Services

Combinations of standard courses can be customized for your individual facility, equipment, and procedures. Some of the more common requests are below:

- Industrial Electricity: Basics and Troubleshooting – 3 days
- National Electrical Code Basics – 3 days
- Grounding and Bonding – 2 days
- Hazardous Locations – 3 days
- Industrial High voltage Safety – 2 days

**Need More Information?** For additional details email: [electricalservices.nby@mersen.com](mailto:electricalservices.nby@mersen.com) or call 978-462-6662.

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