

# Electrical Safety Training

## ABB Electrification Industrial Solutions



ABB Safety Training team specializes in the development and delivery of world-class safety training programs with an emphasis on consistency, quality, and providing a practical learning experience for each student.

### Overview

Our professional safety instructors with extensive power system and equipment experience, can help you realize these benefits by delivering safety training that provides insight and understanding into the risks inherent to electrical equipment and systems.

Courses focus on electrical safety requirements as identified by OSHA in the General Industry Standard, as well as the requirements of the NFPA 70E National Consensus Standard. Training courses can be offered at your site or at a GE Training Center.

Electrical Safety & NFPA 70E for Qualified Individuals requires each student to achieve a passing score upon final examination. Certificates will be presented to students who complete the course successfully.

### Applicability

These courses are applicable to a broad range of industries where employees will encounter electrical equipment energized at greater than 50 volts.

### Available Courses

#### **Electrical Safety & NFPA 70E for Qualified Individuals**

**Course Description:** Required for individuals who face the risk of electrical shock, electrocution, or arc flash if an electrical system is not reduced to an electrically safe work condition. This course meets the electrical section of OSHA requirements – 29 CFR 1910.269, 29 CFR 1910.303 through 29 CFR 1910.308, and 29 CFR 1910.333 for industrial & commercial operations. Course content includes: safety around electrical systems; effects of current on the body, personal protection equipment (PPE) required for working near energized equipment; additional PPE that is required for applying LOTO to equipment to be de-energized; electrical power tool safety; temporary protective grounding; and equipment potential hazards. (If purchased with a GE Arc Flash Hazard Study, this course will be customized to incorporate explanations of selected results detailing potential issues and recommendations.)

**Objectives:**

- Explain the fundamentals of electrical accidents
- Define proper procedures for identifying energized equipment and working on de-energized electrical equipment safely
- Explain how to recognize electrical safety hazards
- Recognize defined appropriate safe work distances to energized equipment
- Explain “Equipotential” and Step Potential
- Review selection of test equipment for identifying energized equipment
- Understand the limitations of test equipment
- Explain selection of PPE for individuals at risk of an electrical arc or explosion
- Review proper method for identifying and applying electrical safety grounds
- Apply inspection guidelines for PPE and test equipment
- Understand arc-flash hazard PPE categories and their application in a number of situations

**Length:** 8 Hours

**Recommended Prerequisites:** Prior knowledge of electrical equipment and systems, personal protective equipment and lockout/tagout training.

**Audience:** Any individual who will be working near energized equipment and has a need to determine the degree and extent of potential hazards. Note: This course is not intended for individuals who are not familiar with the construction and operation of electrical equipment.

**Fundamentals of NFPA 70E**

This course provides information and guidance for individuals who will have responsibilities for implementing, training and enforcing the safety-related work practices of the NFPA 70E Consensus Standard.

**Objectives:**

- Explain shock and arc flash hazard analysis
- Define requirements to train employees
- Outline employer and employee responsibilities
- Understand requirements for work/maintenance practices
- Explain procedures to select appropriate personal protective equipment
- Define qualified individuals

**Length:** 4 Hours

**Recommended Prerequisites:** None

**Audience:** Environment, Health and Safety professionals, plant personnel, and those individuals who will be implementing NFPA 70E requirements at their facility.

Contact us:

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