



Electrical Safety 70 E Arc Flash Specialist (Short course)

Course Credential: Course completion certificate

Course Length: 2 Days

Course Fees: \$795.00

Course Objectives:

Course Information: The course is structured to help companies fulfill requirements set forth in OSHA 29 CFR Part 1910, Subpart S Electrical and NFPA 70E® “Standard for Electrical Safety in the Workplace,” which requires this type of instructor-led training for anyone working with electrically energized equipment. As of September 2023, this seminar includes the changes in the 2024 version of 70E®.

Overall, this program is designed to reduce liability for the employer while establishing a culture of safe work practices among employees; it is a key component of any electrical training program.

WHO SHOULD ATTEND

All personnel with electrical safety responsibilities in a position of leadership in which you may have to train other personnel. Some of these positions could include engineer, technician, maintenance supervisor, plant manager, electrical, master electrician, mechanical supervisor, production manager, safety coordinator, electrical contractors, and others who may work around energized electrical systems.

COURSE OUTLINE

Day One - Discussion Topics:

Electrical Safety & the Qualified Electrical Worker

- Responsibilities & Requirements for a Qualified Electrical Worker
- Who Sets Safety Standards?: NFPA 70E® & Others
- Understanding OSHA's Role in Electrical Safety Regulations
- Electrical Safety Culture in Your Facility

Electrical Hazards

- Severity of Electrical Injuries – Examples and Case Studies
- Shock, Arc-Flash & Arc-Blast
- Understanding GFCIs
- Primary Causes of Arc Flashes
- How to Identify Electrical Hazards
- Understanding Ratings of Arc-Rated Personal Protective Equipment (PPE)
- The Importance of Grounding Systems
- Risk Assessment Procedures
- Emergency Response

Safety Related Work Practices

- In-depth discussion of OSHA 29 CFR 1910 and NFPA 70E®
- Work-Related Definitions

- Safe Operation of Electrical Meters – Ratings and Categories
- Establishing Safe Work Conditions
- Electrical Lockout / Tagout
- Working On or Near Energized Parts
- Determining Proper Approach Distances
- Completing Energized Electrical Work Permits
- Understanding an Arc Flash Analysis
- Interpreting Arc Flash Hazard Warning Labels
- Reading Arc Flash One Line Diagrams
- Personal Protective Equipment (PPE)

Day Two - Discussion Topics

Safety Related Maintenance Requirements

- Understanding General Requirements
- Common Electrical Equipment
- Premises Wiring
- Controller Equipment
- Fuses & Circuit Breakers
- Rotating Equipment
- Hazardous (Classified) Locations

- Batteries & Battery Rooms
- Portable Electrical Tools & Equipment (PPER)

Requirements for Special Equipment

- Electrolytic Cells
- Batteries & Battery Rooms
- Lasers
- Power Electronic Equipment

Electrical Safety Program

- Planning an Electrical Safety Program
- Training Requirements
- Complying with NFPA 70E®
- Interpreting Arc Flash Analysis Reports
- Determining your PPE Requirements
- Documentation of Records

Audience

- Construction Managers
- Building Contractors
- Safety Supervisors
- Building Inspectors

- Hazardous Waste Managers
- Training Managers
- Industrial Hygienists
- Individuals associated with federal agency collateral duty safety and health personnel

PREREQUISITES:

It is recommended that attendees each know basic electricity and safety hazards.