



NFPA 70E Electrical Safety Training (1 Day)

Course Duration: 8 Hours (1 Day)

Based on: NFPA 70E-2024 Edition

Training Format: Available Onsite and Virtual (MS Teams or Zoom)

Course Overview

This comprehensive 1 Day course provides essential electrical safety training based on the latest NFPA 70E-2024 standard. Participants will gain practical knowledge and hands-on experience to identify electrical hazards, implement safe work practices, and establish electrically safe work conditions in accordance with OSHA requirements.

Learning Objectives

Upon completion of this course, participants will be able to:

- Understand electrical fundamentals and their relationship to workplace safety hazards
- Identify the four primary electrical hazards: shock, arc flash, arc blast, and thermal burns
- Implement the 8-step Electrically Safe Work Condition (ESWC) process
- Conduct proper risk assessments for shock and arc flash hazards
- Select appropriate Personal Protective Equipment (PPE) based on hazard analysis
- Establish and maintain comprehensive electrical safety programs
- Execute proper lockout/tagout procedures for electrical systems
- Respond effectively to electrical emergencies

Course Modules

Module 1: Introduction & Electrical Fundamentals

Course objectives, safety statistics, basic electrical theory, and power systems

Module 2: NFPA 70E Standard & Key Definitions

Standard organization, 2024 updates, OSHA relationship, and key definitions

Updated: June 2025



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Module 3: Hazard Recognition & Arc Flash

All four electrical hazards, shock effects, arc flash fundamentals, and case studies

Module 4: Emergency Response & Testing Equipment

Emergency procedures, first aid, and testing equipment

Module 5: Lockout/Tagout & Electrically Safe Work Conditions

Complete 8-step ESWC process and energized work requirements

Module 6: Safety Programs & Risk Assessment

Program development and risk assessment procedures

Training Methods

Interactive lectures, hands-on exercises, equipment demonstrations, and scenario-based learning

Course Materials Included

Reference Materials and Certificate of Completion

Assessment and Certification

End-of-Course Competency Assessment: All participants must successfully complete a comprehensive examination covering all course modules with a **minimum score of 75%** to receive certification.

Assessment Format:

- Written examination testing knowledge retention
- Practical demonstration of key safety procedures
- Scenario-based problem solving

Certification: Upon successful completion, participants will receive a certificate demonstrating compliance with NFPA 70E training requirements.

Who Should Attend

Maintenance workers, electricians, engineers, safety professionals, supervisors, and anyone working on or near electrical equipment ≥ 50 volts

Updated: June 2025



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Prerequisites

Basic understanding of electrical systems - no prior NFPA 70E training required

Contact NFPA70E.net today to schedule your NFPA 70E training and ensure your workforce is prepared to work safely around electrical hazards in accordance with the latest 2024 standard.

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