

NFPA 70E® – 2015 Electrical Safety

2 Days, 1.6 CEUs

The NFPA 70E Standard for Electrical Safety in the Workplace has been updated for 2015. This updated standard contains significant changes when compared to the 2012 version. The course covers the requirements for working safely in the electrical environment based on the NFPA 70E. Understanding this standard is imperative for compliance with the OSHA mandates regarding electrical safety in the workplace. OSHA specifically mandates employer assessment of generally recognized hazards in the workplace and provisions for protecting the employee from those hazards. Some of the changes in the NFPA 70E 2015 edition include: the risk assessment process, a new task based table to clarify selection methods for arc flash PPE, and the electrical safety program requirements for maintenance on electrical equipment.

The NFPA 70E is updated to reflect ongoing research to improve electrical safe work practices and personal protective equipment (PPE). OSHA compliance and a safe workplace are the desired outcomes. NFPA 70E provides the directions on how to achieve that outcome. Fewer electrical accidents are in everyone's best interest.

Who Should Attend

This two-day course is intended for any personnel who work on or around AC or DC voltages of 50 volts or more, or that are responsible for safety in the workplace. Personnel in any industry where the hazards of electricity are a reality will benefit from this knowledge. This course assists in meeting the mandated training requirements of OSHA 1910.332. Participants will receive the 2015 edition of the NFPA 70E.

Learning Objectives:

Upon completion of this course the participant will demonstrate, by attaining a minimum exam score of 80%, that he/she is able to:

- Identify common factors of electrical accidents.
- Understand the arrangement of the material in the NFPA 70E.
- Explain the hazards of electrical work and their effects on the employee.
- Describe the main elements in an electrical safe work program.
- Identify the requirements for establishing an electrically safe work condition.
- Identify the requirements for a shock risk assessment.
- Establish approach boundaries for shock protection for qualified and unqualified employees.
- Select personal protective equipment for shock protection.
- Identify the requirements of an arc flash risk assessment.
- Select safe work practices if an arc flash hazard is present.
- Understand the use of the arc flash boundary.
- Select personal protective equipment for arc flash protection.

SCOPE

Day 1*

I. Introduction

- A. Electrical Safety

II. Article 90 and Chapter 1, Article 100

- A. Article 90, NFPA 70E Introduction
- B. Article 100, Definitions

III. Chapter 1, Article 105

- A. Recognized Hazards of Electrical Work
- B. Responsibilities of Employers and Employees

IV. Chapter 1, Article 110

- A. Electrical Safety Program
- B. Training Requirements
- C. Host/Contractor Relationships
- D. Use of Equipment

V. Chapter 1, Article 120

- A. Process to be Electrically Safe
- B. LOTO Application
- C. Temporary Protective Grounding

Day 2

VI. Chapter 1, Article 130

- A. Energized Work Justification
- B. Energized Electrical Work Permit
- C. Electrical Shock Risk Assessment Requirements
- D. Establishing Shock Protection Boundaries
- E. Arc Flash Risk Assessment
- F. Other Precautions for Personnel Activities
- G. Personal and Other Protective Equipment
- H. Alerting Techniques
- I. Working Near Overhead Lines

VII. Chapter 2 Safety-Related Maintenance Requirements

- A. Introduction
- B. General Maintenance Requirements
- C. Specific Equipment Requirements

VIII. Chapter 3 and Informative Annexes

- A. Introduction
- B. Special Equipment Safety-Related Work Practices
- C. Overview of Information Annexes

IX. Final Exam

*Class scheduling times may vary based on discussions and size of class



TRAINING INSTITUTE, INC.