

ELECTRICAL SAFETY IN THE WORKPLACE (NFPA 70E)

Category: Workplace Safety

COURSE NO: E04C-04I

CREDIT: 4 HOURS

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PRICE: \$42

Course Highlights

This is an online continuing education course for Electrical Apprentice, Master and Journeyman licensed in the State of Utah. It provides an overview of the NFPA 70E, which sets standards for electrical safety, offering a comprehensive understanding of electrical safety principles, work practices, and risk assessment methods as defined by the National Fire Protection Association (NFPA).

The NFPA 70E Standard for Electrical Safety in the Workplace is a critical framework established by the National Fire Protection Association to minimize the risk of electrical injuries in occupational settings. It outlines comprehensive requirements for safe work practices, maintenance procedures, training, and risk assessment to protect employees from electrical hazards such as shock, arc flash, and arc blast. By promoting a proactive safety culture and supporting regulatory compliance, NFPA 70E plays a vital role in safeguarding personnel, reducing downtime, and enhancing overall operational safety. The following chapters and annexes are briefly discussed below and illustrated in this course:

- **Chapter 1 – Safety-Related Work Practices:** Establishes the fundamental requirements for safe work practices to protect employees from electrical hazards such as shock, arc flash, and arc blast.
- **Chapter 2 – Safety-Related Maintenance Requirements:** Focuses on maintaining electrical equipment to ensure continued safety and reliability.
- **Chapter 3 – Safety Requirements for Special Equipment:** Explains specific electrical safety considerations for unique systems and conditions, including batteries, capacitors, and other energy storage devices.
- **Annex F – Risk Assessment and Risk Control:** Provides practical guidance for implementing a structured risk assessment process, including methods to identify hazards, estimate risk, and apply the hierarchy of risk control.
- **Annex L – Typical Electrical System and Equipment Maintenance Program:** Outlines examples of maintenance program components, including preventive and predictive maintenance strategies.

- **Annex R – Working with Capacitors:** Addresses specific electrical hazards associated with capacitors, including electric shock, discharge duration, and residual energy.

This online NFPA 70E interactive video presentation is intended for electricians and other technical personnel interested in learning about the workplace safety standards. Participants will learn insights into the most recent updates, with real-world examples that clarify how the standards are applied in residential, commercial, and industrial settings.

Learning Objectives

This continuing education interactive video presentation is intended to provide Electrical Apprentice, Master and Journeyman licensed in the State of Utah with the following specific knowledge and skills:

- To identify electrical safety-related work practices and when they are required.
- To learn the roles and responsibilities of employers and employees in electrical safety.
- To understand the process and importance of electrical risk assessments.
- To identify the key components of an effective electrical safety program.
- To learn lockout/tagout procedures and their safety implications.
- To distinguish between training needs for qualified and unqualified persons.
- To understand safety requirements for special equipment (e.g., batteries, lasers).
- To learn proper maintenance practices for electrical systems and tools.
- To understand emergency response requirements, including CPR and AED use.

Course Document

For this course, you will need to watch the interactive presentation titled, “Electrical Safety in the Workplace (NFPA 70E)”. To access the interactive presentation, you will need to login or register and purchase the course. Following the course purchase, please click on the link provided in your account history to view the interactive presentation. The duration of the interactive presentation is approximately 252 minutes including course quiz and course knowledge check questions.

Course Quiz

Once you finish watching this interactive presentation, you will be redirected to your account to take a multiple-choice quiz consisting of twenty (20) questions to earn 4 credit hours. The quiz will be based on this interactive presentation. The minimum passing score is 70%. There is no time limit on the quiz, and you can take it multiple times until you pass at no additional cost.

Certificate of Completion

Upon successful completion of the quiz, please print your Certificate of Completion instantly. (Note: if you are paying by check or money order, you may print your Certificate of Completion after we receive your payment.) For your convenience, we will also email you your Certificate of Completion. Also, you can log in to your account at any time to access and print your Certificate of Completion.