



Course Name	Electrical Safety (NFPA 70E 2024) Part 1
Credit Hours	4 Hours
Instructor(s)	Jerry Durham
Fee	\$49.00
Reference Materials	NFPA 70E Standard for Electrical Safety in the Workplace 2024 Edition

Course Description

A comprehensive guide to understanding the first half of the 2024 NFPA 70E Standard for Electrical Safety in the Workplace electrical safety rules and requirements. The 2024 NFPA 70E publication and this course are consistent with NFPA requirements from the 2023 NFPA 70 National Electrical Code (NEC). This course introduces users to the arrangement of NFPA 70E and the scope of its articles promoting safe work practices for employees working around electricity in the capacity of general electrical equipment installation and service, electrical equipment maintenance, and work on electrical equipment deemed Special Equipment by NFPA 70E.

Learning Outcomes

At completion of this course, licensees can expect to be able to:

- Describe the purpose, scope, and arrangement of the 2024 NFPA 70E.
- Understand how the 2024 NFPA 70E Standard applies to general electrical installations, electrical maintenance, and work on special electrical equipment.
- Explain the difference between mandatory rules, permissive rules, and explanatory materials in 70E.
- Describe terms and definitions specific to the NFPA 70 Standard.
- Understand the need and process for establishing electrically safe work conditions around equipment.
- Be familiar with an electrical safety program (ESP)
- Understand host employer and contract employer responsibilities for maintaining electrical safety on the job site.
- Understand risk assessment and its value for promoting safety on the job site.
- Execute safe handling, storage, and grounding of portable electrical tools.
- Be familiar with the types of maintenance necessary for fuses, circuit breakers, and their associated parts.
- Understand ground-fault protection for electrical tools and equipment.
- Understand lockout/tagout (LOTO) as a safety protocol.

- Understand that both simple and complex procedures are recognized by NFPA 70E for LOTO.
- Explain that special electrical equipment is recognized and covered by NFPA 70E and that electrical equipment deemed special by NFPA 70E has dedicated NFPA 70E requirements for worker's safety.
- Explain an arc-flash event while being familiar with hazards to human life resulting from a lack of proper PPE on the job.
- Understand the types of personal protective equipment (PPE) and that maintenance or inspection of PPE is required at regular intervals.

Equipment Requirements

You must have an active, working internet connection to access this course online, as well as a platform to access the internet, such as a computer, tablet, or phone. All popular web browsers are supported, including Google Chrome, Mozilla Firefox, Safari, and Opera. No specialized software, speaker, microphone, or web camera is required.

Schedule and Location

This course is available online at any time at www.TradesmanCE.com. Upon enrolling in the course, students will have access for 365 days or until the agency-issued course expiration date, whichever comes first. After the access expiration date, the course will be removed from the student's account, and any progress in the course will be lost. Before the access expiration date, the student may sign in and out of the course as many times as needed to complete the course.

Student Support

Both general and technical support is available to the student before, during, and after taking the course online. Students have access to general customer support via phone, chat, and email. Students have access to the course instructor via a contact form in the course and email. All questions, concerns, and comments received will be responded to within one business day.

Participation/Interactivity Verification

Inactivity Timer - Students are automatically logged out of the training after 15 minutes if the system does not sense interactivity (e.g., a mouse click or typing).

Timed Logs - Per our company's record retention policy, each student's every log-in, log-out, and lesson/assessment completion time is tracked and retained as part of the student record.

Global Timer - Students will not get credit until they spend a minimum of 240 active minutes total in the course.

Identity Verification

Unique Username/Password - Each student that wants to complete a training course with us must create an account by registering a unique personal email address and password. The student must enter this unique identifier every time they want to access the course after logging out.

Assessment Details

Quizzes - The student must complete all quizzes between sections with a score of at least 75% in order to get credit for the course. Students cannot progress in the course until each question has been answered and each quiz has been successfully passed.

Electrical Safety (NFPA 70E 2024) Part 1 Timed Outline

Section	Title	Questions	Minutes*
1	Article 90		11
	NFPA 70E-2024 Sections 90.1, 90.2, 90.3		
	NFPA 70E-2024 Sections 90.4, 90.5, 90.6		
	Quiz	4	4
2	Articles 100-110		63
	NFPA 70E-2024 Article 100		
	NFPA 70E-2024 Section 105.3		
	NFPA 70E-2024 Section 110.1, 110.2		
	NFPA 70E-2024 Sections 110.3		
	NFPA 70E-2024 Section 110.4		
	NFPA 70E-2024 Section 110.5		
	NFPA 70E-2024 Section 110.6		
	NFPA 70E-2024 Section 110.7(A), 110.7(B)		
	NFPA 70E-2024 Section 110.7 (C) — (F)		
	NFPA 70E-2024 Section 110.8		
	NFPA 70E-2024 Section 110.8, 110.9, 110.10		
	Quiz	22	22
3	Article 120		61
	NFPA 70E-2024 Article 120		
	NFPA 70E-2024 Section 120.2		
	NFPA 70E-2024 Section 120.3		
	NFPA 70E-2024 Section 120.4		
	NFPA 70E-2024 Section 120.5(A)(1)—(4) (Simple Procedure)		
	NFPA 70E-2024 Section 120.5(A)(5) (Complex Procedure)		
	NFPA 70E-2024 Section 120.6		
	Quiz	14	14
4	Article 130		55
	NFPA 70E-2024 Article 130		
	NFPA 70E-2024 Sections 130.5		
	NFPA 70E-2024 Section 130.7(C)(1)—(8)		
	NFPA 70E-2024 Section 130.7(C)(9)—(15)		
	NFPA 70E-2024 Section 130.7(C) Tables		
	Quiz	10	10
	Totals:	50	240
	Student Minimum Time Required:		240