

2021 NFPA 70E - 4 CE Hours

Course Syllabus & Outline

COURSE DETAILS

CEU Credits: 4

Contact Hours: 4

Course Type: Safety

Required Textbook: None

Class Format/Location: Web-based course delivered on-line @ bluevoltceu.com

Prerequisite: A basic understanding of installing electrical raceways, cables, conductors and equipment. No technical knowledge is required.

Instructor: Richard Van Wert

COURSE DESCRIPTION

Understanding NFPA 70E helps employees protect themselves and their colleagues from injury due to electrical hazards. First, learn about the different hazards and the causes and dangers presented by each. Then, learn how to prevent injury through processes and protective equipment. Learn how different standards, programs and procedures improve electrical safety in the workplace. Finally, learn about new Article 360 on safety requirements for capacitors.

COURSE OBJECTIVES

Identify, analyze, prevent, and respond to safety hazards

Understand standards of safety including 70, 70E, and OSHA

Understand how to use safe work practices, lockout/tagout and personal protective equipment

Create and implement effective safety procedures

EVALUATION/GRADING

Participants will receive feedback in meeting learning outcomes by answering questions embedded in course modules. A final exam is given at the end of the course. Students are required to get a 70% or higher on the final test to pass.

EVIDENCE OF COMPLETION

Students will be provided with a printable certificate of completion upon successful completion of the course. BlueVolt maintains a transcript of each student's participation in the course, for 10 years.

CONTROL TIME & SECURITY

BlueVolt times each student's active participation in a course and enforces the module seat times (shown on the syllabus) via a timer. After 10 minutes of inactivity, the seat time clock stops and the learner is logged out. If learners complete the material before the seat time requirement is met, they

may use review modules to revisit material as needed. For security, learner accounts are password protected. Learners must confirm their identity each time they log into the course.

COURSE OUTLINE

- **Chapter 1 - 10 minutes**
 - Intro to 70E
 - Overview of Safe Workplaces
- **Chapter 2 - 50 minutes**
 - Types of Electrical Hazards, Part 1 (electric shock, burns, arc blast, and more)
 - Types of Electrical Hazards, Arc Flash and Its Impacts
- **Chapter 3 - 10 minutes**
 - Hazard Analysis
 - Energized Work Permit
- **Chapter 4 - 10 minutes**
 - Preventing Injuries
- **Chapter 5 - 40 minutes**
 - PPE, Hazard Risk Categories, Labels
- **Chapter 6 - 10 minutes**
 - Safety Standards
 - History of 70E
- **Chapter 7 - 10 minutes**
 - Safe Work Practices
- **Chapter 8 - 10 minutes**
 - Safe Enclosures
 - Lockout/Tag-out
- **Chapter 9 - 15 minutes**
 - Risk Control Methods
 - Preparing for the Worst
- **Chapter 10 - 15 minutes**
 - Electrical Incident Response
 - Safety Program
 - Safety Procedures
- **Chapter 11 – 20 minutes**
 - Article 360 – Safety Requirements for Capacitors