



Course Name	Electrical Safety (NFPA 70E 2021)
Credit Hours	5 Hours
Course Description	<p>This course equips electricians and other workers exposed to electrical hazards with knowledge needed to apply safety requirements from the NFPA 70E. We start by detailing the arrangement, scope, and purpose of the document, as well as define common terms. Then, we discuss securing an electrically safe work condition, lockout/tagout, energized work, grounding electrical equipment, arc flash and more. In summary, we clarify NFPA 70E safety practices used in the electrical industry. This course has no prerequisites.</p>
Course Objectives	<p>After completing this course, the licensee should be able to:</p> <ul style="list-style-type: none">• Define the purpose, scope, and arrangement of the NFPA 70E.• List employer and employee responsibilities for maintaining compliance with the NFPA 70E.• Recognize a qualified person on the jobsite.• List safety requirements for contracted employees on a jobsite.• Describe testing and troubleshooting procedures on a jobsite.• Explain how to perform visual inspections of testing tools and equipment.• Explain equipment handling and storage procedures.• Recognize danger when working with equipment in wet and conductive areas.• Describe required GFCI and AFCI protection.• Explain lockout/tagout procedures.• List the eight steps for verifying an electrically safe working condition.• Explain the requirements for working on energized conductors, circuit parts, and equipment.• Define an arc-flash.• Describe an arc-flash assessment.• Define personal protective equipment (PPE).• List types of PPE for head, hands, feet, and body protection.• Describe an arc-flash boundary.

- Define “maintenance” per the NFPA 70E.
- Identify dangers surrounding overhead lines.
- Explain the need for protection of open wiring.
- Describe hazardous (classified) locations.
- Describe safe conduct around batteries.
- Define the term “special equipment”.
- Explain safety requirements for storage battery voltages above 50 volts.
- List safety-related work requirements for research and development labs.
- Discuss the danger associated with capacitors.
- Recognize a NFPA Annex.

Course Timed Syllabus

Attached

Method of Presentation

This online course uses instructor-led video, animation, text, and images. Multiple choice questions are used to test how well the student understands the material between each section. Each answer choice has a response which tells the student whether the selected answer is correct or not.

Schedule and Location

This course may be taken at any time at www.aypotech.com. The student may sign in and out of the course as many times as needed to complete the course.

Attendance Verification

Licensees can only access the training course using a secure username and password, linked to their unique email address.

Method of Evaluation

The licensee must complete all multiple-choice questions between sections correctly to get credit for the course. If their first response is incorrect, students will have to try again until they choose the correct answer. Question choices are randomized, so each participant will have a unique testing experience.

The course is also timed; participants will not get credit until they spend at least 300 active minutes in the course.

After successful completion of the course, the licensee is required to complete and submit a questionnaire in order to access their certificate of completion.

Online Review Access

To review this course, go to www.aypotech.com and sign into the learning system using the login information below.

Username: ORWtester
Password: ORWtester

Instructor(s)

Jerry Durham (resume attached)

Cost

\$50.00