



Continuing education for electrical workers to ensure and electrically safe work environment and work practices

I. Course Title:

Electrical Safety NFPA 70E

II. Course Objective:

At the end of this class attendees will show increased knowledge and awareness of electrical hazards and their responsibility to ensure electrical safety through compliance with current regulations, standards and industry best practices.

III. Course Drivers:

OSHA 1910.331 – 335, NFPA 70E, NFPA 70B, NFPA 70, NETA-MTS

IV. Course Outcomes:

- a. Increased awareness of electrical hazards and injury consequences
- b. Working knowledge of industry regulations, standards and industry best practices focused in protecting electrical safety
- c. Knowledge of critical elements to include when developing a compliant company electrical safety program
- d. Understanding of safe work practices to be employed
- e. Show proficiency of a working knowledge of current NFPA 70 (NEC), NFPA 70E (Electrical Safe Work Practices) and NFPA 70B (Recommended Practice for Electrical Equipment Maintenance) that apply to electrical safety
- f. Demonstration of skills proficiency in selecting, inspecting and utilizing required PPE

V. Specific Learning Objectives:

- a. Identify 3 electrical hazards
- b. Acknowledge responsibility for your actions
- c. Recognize injuries caused by electrical hazards
- d. Understand electrical hazard analysis techniques
- e. Determine appropriate means of electrical hazard mitigation
- f. Explore “safety by design” conditions
- g. Identify regulations applicable to electrical installations
- h. Verify working knowledge of NFPA 70 (NEC), NFPA 70E (Electrical Safe Work Practices) and NFPA 70E Recommended Practice for Electrical Equipment Maintenance)
- i. Understanding the permitting process to ensure safe work
- j. Follow the “Work Flow Process” to ensure safe work
- k. Application of industry best practices for energized work
- l. Determining “normal” vs “abnormal” operating conditions
- m. Recognize acceptable and unacceptable “energized work tasks”
- n. Establishing an electrically safe working condition and area
- o. Understand roles and responsibilities of both qualified and non-qualified workers utilizing electricity
- p. Develop “readiness for work” and “fitness for duty” self-awareness



- q. Demonstrate skills proficiency in selecting, inspecting, maintaining, using and storing PPE designed for the electrical hazards
- r. Participate (or observe) in skills competency verification and validation exercises
- s. Demonstrate skills proficiency and understanding by measured observational techniques

VI. Target Audience:

- a. Electricians
- b. Instrumentation technicians
- c. Electrical Engineers
- d. Operators of Electrical Systems

VII. Activity Description

- a. Attendees show proficiency through class activities in navigating the NEC and achieving a minimum of 80% on the course subject quizzes and tests
- b. Participants will show proficiency in selecting, inspecting, inspecting, testing and maintaining their personal PPE and tools

VII. Course Length:

Course can be tailored to meet client needs. Outcomes and Learning Objectives are not reduced while depth of class activity times are modified to meet time constraints

- a. 8 CEUs
Eight (8) hours of instructional time and activities within a single day
Electrical safety is emphasized
- b. 16 CEUs
Sixteen (16) hours of instructional time and activities over two consecutive days
Electrical safety, installation and maintenance are emphasized

NOTE: Check with your licensing agency for acceptance of LEE/WESS issued CEU's in your state