



## **Electrical Continuing Education, 8-Hr. Code Related “NFPA-70E, Safety in the Workplace Course Outline”**

**Instructor James Imlah**

---

**Course Description:** 8-hour overview of the 2021 Edition of NFPA-70E for Safety in the workplace specific to electrical installations. The presentation will include worker safety-related work practices and safety related maintenance requirements discussions. This course will provide a Power Point presentation for all licensed electricians for safety awareness and being vigilant of safety hazards when performing work on or near electrical equipment.

**Course Objectives:**

- Understand the definitions as provided in NFPA-70E
- Understand potential hazards in the work place when performing work on possibly energized electrical installations.
- Understand the rules for “qualified persons” performing electrical installations
- Provide assistance to understand and recognize safety hazards on the job.
- Provide clarification how to address a hot work required documentation

**Class Content:**

- Discussion of related electrical incidents with hazards and injuries .5 hours
- Definitions as related to Electrical Safety in the workplace .5 hour
- Application of Safety Related work practices and hazards .75 hour
- Coffee Break, .25 hour
- Implementing 70E Electrical Safety program with related OSHA standards 1.5 hour
- Discussion of the Hot Work Permit and how to fill out the form, .5 hour
- Lunch Break
- Discussion of general maintenance requirements .5 hours
- Incident energy and arc flash boundary calculations .5 hour
- Energized electrical work permit and planning checklist 1 hour
- Coffee Break, .25 hour
- Procedure for testing, selection, inspection and care of safety equipment 1 hour
- Provide understanding of approach boundaries and pre-work assessment 1-hour

### **Reference Materials:**

- Current adopted 2021 Safety in the Workplace (NFPA-70E)
- 2019 Recommended Practice for Electrical Equipment Maintenance

### **NEC Code References**

- 90.1 Purpose-Safeguarding of Persons
- 110.3(B) Installation and use of equipment
- 110.16 Arc-Flash Hazard Warnings
- 110.26 Spaces Around Electrical Equipment

### **Course Attendees**

This course would be primarily for journeyman electricians, general and plant supervisors, plant journeyman, and limited maintenance electricians. Other individuals such as engineers or apprentice electricians may also attend the training. Any licensed electrician in the State of Utah can receive up to 8-hours of CC (Code Change) CEU's for attendance.

### **Course Documentation**

Upon completion of the training, 8 hours of training, CEU's will be submitted to the State of Utah within 15 working days.

Attendees will receive a "Certificate of Completion" for the training.

A sign-in roster will be maintained for 5-years and made available upon request

Course survey forms will be given to attendees and will be maintained for 5-years and made available upon request.