

# ELECTRICAL SAFETY

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**COURSE:** NFPA 70E COMPLIANCE TRAINING

**DESCRIPTION:** This course presents electrical safety information based on the NFPA 70E *“Standard for Electrical Safety in the Workplace”* 2004 Edition. These rules establish the work practices to be used during the operation and maintenance of electrical systems.

The NFPA 70E requires all employees involved in the operation or maintenance of electrical systems, or who have access to these systems are required to be trained in the safety related work practices.

Supplemented by graphic videos and stimulating class discussions this course has the impact required to ensure the employee actually uses the procedures taught.

**DURATION:** 16 Hours

**FORMAT:** Power Point Presentation  
Instructor Demonstrations

**AUDIENCE:** Electrical Trades, Supervisors, Engineers, Managers and any other personnel involved in the operation of industrial electrical equipment. Safety personnel should also attend to evaluate/establish their facility safety programs and identify the needs of their employees.

**OBJECTIVE:** This training program will provide the student with the information required to set up an electrical safety program to comply with the NFPA 70E requirements in electrical safety, as well as to follow practices found to be valid through years of field experience.

**TOPICS:**

- Applicable NFPA 70E requirements
- Establishing an effective electrical safety program
- Burns, Shock, and Hazards of electricity
- Personal Protective Equipment selection, care, and use
- Establishing an Electrically Safe Working Condition
- Hazardous energy control, Lockout and Tagout
- Proper use of safety and test equipment
- Grounding for employee protection
- Short circuit and arc flash studies
- Conducting Flash Hazard analysis
- Selection and use of protective clothing for arc flash protection
- Shock hazard analysis
- Energized Electrical Work Permit
- Safe work clearances
- Basic First Aid relating to electrical injuries

