



NFPA 70E Arc Flash Safety

Course Description



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Introduction

Electrical power is a dangerous force that requires proper understanding in the workplace. This course defines the requirements for work practices that workers should use to avoid injury from a release of electrical energy when performing tasks involving electrical power. The specific information in this course enables the student to prevent or minimize exposure to all widely recognized electrical hazards as well as to better understand the importance of the relationship between OSHA and NFPA 70E.

While this training course is very comprehensive, we highly recommend that additional site-specific training be taken for certain hazardous materials that may be encountered at different sites.

Upon completion of class students will be able to:

- Identify electrical hazards
- Identify causes of arc flash
- Explain the biological effects of electrical shock / arc flash
- Select appropriate personal protective equipment (PPE) for applicable situations
- Describe lockout / tagout procedures
- Identify the hazards and risks associated with arc flash
- Respond appropriately to an arc flash incident
- Demonstrate safe work practices

Course Length: On-line 4 hours

Prerequisites: None

Course Content:

- Understanding standards for electrical safety
- Understand the relationship between OSHA and NFPA 70E
- Understand ARC ratings
- Creating safe working conditions
- Understanding electrical shock hazards
- Understand transformers and circuit breakers
- Executing a lockout/tagout
- Understanding hazards of live parts



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Course Content Cont'd

- General standards on personal protective equipment
- Introduction to NFPA 70E
- Safety Related Work Practices
- General Requirements for Electrical Safety Related Work Practices
- Electrical Safety Program
- Transformer Current Ratings
- Energized Electrical Work Permits
- Lockout/ Tagout
- Working On or Near Live Parts
- Alternative Methods of Determining Arc Flash FR Clothing and PPE
- General NFPA 70E standards pertaining to Personal and other Protective Equipment

Final Exam