



Electrical Safety (Qualified)

Course Outline

Course Length: 8 hours

Course Objectives

- Provide delegates with the knowledge to safely perform work around energized and non-energized electrical equipment.
- Provide delegates with recommended practices and guidelines to perform safely while working with electricity.
- Delegates should be able to demonstrate knowledge during written examination.

Course Design:

- Narrated e-learning modules

Successful Course Completion:

- Requires successful completion of knowledge assessment.

Course Outline

About NFPA 70E

- What is Covered
- What is Not Covered

Safety Related Work Practices

- Definitions

Article 105 - Application of Safety-Related Work Practices and Procedures

- Responsibilities
 - Employer
 - Employee

Article 110 - General Requirements for Electrical Safety-Related Work Practices

- Electrically Safe Work Condition
- Energized Work
- Normal Operating Condition
- Elements of an Electrical Safety Program
- Risk Assessment Procedure
 - Human Error
 - Hierarchy of Risk Control Methods
- Job Safety Planning and Job Briefing
- Incident Investigations
- Auditing
- Training Requirements
 - Qualified Person



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- Unqualified Person
- Lockout/Tagout Procedure
- Emergency Response
- Ground-Fault Circuit-Interrupter (GFCI) Protection

Article 120 - Establishing an Electrically Safe Work Condition

- Lockout/Tagout Program
 - Employer Responsibilities
 - Employee Involvement
 - Procedure
 - Coordination
 - Lockout Device
 - Tagout Device
 - Planning
 - Elements of Control
 - Process Equipment and Piping Isolation Procedures
 - Purpose
 - Scope
 - Applications
 - Hazards
 - Responsibilities
 - Isolation Procedures
 - General Requirements
 - Electrically Safe Work Condition

Article 130 - Work Involving Electrical Hazards

- Energized Electrical Work Permit
- Elements of a Work Permit
- Exemptions to Work Permit
- Shock Risk Assessment
- Arc Flash Risk Assessment
- Incident Energy Analysis Method
- Equipment Labeling
- Personal and Other Protective Equipment
- Care of Equipment
- Personal Protective Equipment (PPE)
 - PPE Category 1 – 4
- Other Protective Equipment
- Portable Ladders
- Alerting Techniques & Other Protective Equipment



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- Standards for Other Protective Equipment
- Overhead Lines

Informative Annexes

Post Training Evaluation:

- The employer shall ensure that each employee is evaluated to confirm that he/she understands the information provided in the training.

Reference Material / Documents:

NFPA 70E Standard (National Fire Protection Agency)

- 2021 Edition

M&A Safety Services training conforms to OSHA CBT Training standards and ANSI Z490.1. Criteria for Accepted Practices in Safety, Health and Environmental Training. M&A Safety Services LLC. follows all ANSI training criteria.

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