

NFPA 70E Arc Flash

2 Day Seminar



DESCRIPTION:

In today's workplace it is crucial to develop safe work practices that not only protect workers from the hazards of electrical shock, arcs, and blasts, but also reduce downtime and costly maintenance schedules.

In our NFPA 70E Arc Flash training you will learn the differences between the NFPA 70E, the NEC® (National Electrical Code), the National Electrical Safety Code, and OSHA (Occupational Safety and Health Association). You will also learn how they interact and how to meet safety requirements so you can avoid costly OSHA penalties.

You will get a better understanding of the NFPA 70E: Standard for Electrical Safety in the Workplace® by covering basic terms, definitions, and scope. You will be better equipped to develop your own safety program, help protect yourself and your workers, and establish a safe work condition by becoming better aware of your workplace hazards and using proper PPE (personal protective equipment) and equipment.

Each student receives:

- 1 Published textbook
- 2 Course Certificate
- 3 A Copy of the **NFPA 70E: Standard for Electrical Safety in the Workplace, 2009 Ed.**

For registration or more information call **303.838.7396**
or email armin@deltaparadigm.com

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COURSE OUTLINE:

NFPA 70E Arc Flash

2 Day Seminar

Electrical Safety in the Workplace

- NFPA 70 E
- NEC (National Electric Code)
- National Electrical Safety Code
- OSHA (Occupational Safety and Health Association)
- Interaction between Codes

Electrical Hazards Analysis

- Electric Shocks, Arcs and Blasts
- Fault Current and Potential Difference
- Standard Arrangement

Chapter 1 – Safety related Work Practices

- Scope
- Standard Terms and Definitions
- General requirements for Electrical Safety related Work practices
- Employee Responsibilities
- Contract Employer Responsibility
- Training Requirements
- Emergency Procedures
- Requirements for a qualified Person

- Electrical Safety Program Procedures
- Hazard/Risk evaluation
- Job Briefing Requirements
- Approach Boundaries
- Electrical Hazard Analysis
- Test Instruments and Equipment
- GFCI Protection Devices
- Establishing an Electrical Safe Work Condition
- Lockout/Tagout Procedures
- Energized Electrical Work Permit
- Personal Protective Equipment
- Protective Clothing Rating System
- Insulated Tools and Equipment

Chapter 2 – Safety Related Maintenance Requirements

- General Maintenance Requirements
- Schematic Diagrams
- Substations and Switchgear Assemblies
- Switchboards, Panel Boards and Motor Control Centers
- Disconnect Switches

- Fuses and Circuit Breakers
- Rotating Equipment
- Personal Safety and Protective Equipment
- Safety Grounding Equipment

Chapter 3 – Safety Requirements for Special Equipment

- Electrolytic Cells
- Portable Electric Equipment
- Batteries and Battery Rooms
- Work Practices for use of Lasers
- Work Practices for Power Electronic Equipment

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