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NFPA 70e Training - Arc Flash

Course details: https://www.electricityforum.com/electrical-training/nfpa70e-training

COURSE DATES AND TIMES

July 24, 2024

10:00 am - 4:30 pm ET

August 21, 2024

10:00 am - 4:30 pm ET

September 25, 2024

10:00 am - 4:30 pm ET

October 23, 2024

10:00 am - 4:30 pm ET

November 20, 2024

10:00 am - 4:30 pm ET

December 18, 2024

10:00 am - 4:30 pm ET

NFPA 70e Training - Our 6-Hour live online instructor-led arc flash and shock protection course is designed to introduce front-line qualified electrical workers to the electrical safety regulations found in the National Fire Protection Association (NFPA) standard governing workplace safety. Our NFPA 70e course also explains the relationship between OSHA and NFPA 70E. The course moves through the standard, article by article, highlighting each important point.

Who should take our NFPA 70E training?

NFPA 70E arc flash safety training is essential for anyone exposed to electrical hazards in the workplace. This includes electricians, electrical contractors, maintenance personnel, engineers, supervisors, safety professionals, and anyone who works with or around electrical equipment.

The NFPA 70E standard for electrical safety in the workplace for electrical safe work practices is recognized as an authority worldwide.

The training is essential for qualified electrical workers responsible for installing, repairing, and maintaining electrical systems and equipment. These workers are at a high risk of being exposed to electrical hazards, including arc flash and shock, and must understand the hazards and how to protect themselves and others.

However, NFPA 70E training is for more than just electrical workers. Anyone who works in or around an area where electrical equipment is present should receive training to understand the hazards and how to protect themselves. This includes facility managers, building owners, and even office workers who may need to unplug or reset electrical equipment.

Ultimately, NFPA 70E training is important for anyone who wants to ensure the safety of themselves and others in the workplace. By understanding the hazards and how to protect against them, individuals can prevent accidents and injuries, improve efficiency, and comply with regulations.

NFPA 70E training Benefits

There are many benefits to receiving NFPA 70E arc flash training for individuals and companies with an electrical safety program. Here are some of the key benefits:

Enhanced safety: The primary benefit of NFPA 70E arc flash training is enhanced safety. The training teaches workers how to identify and avoid electrical hazards, including arc flash incidents. By understanding these hazards and how to protect against them, workers can significantly reduce the risk of injury or death.

Compliance with regulations: OSHA requires employers to train employees who may be exposed to electrical hazards in the workplace. NFPA 70E is one of the standards that OSHA references. By providing this training to their employees, companies can ensure they comply with OSHA regulations.

Reduced risk of accidents: By training workers on electrical safety best practices, companies can reduce the risk of accidents and injuries in the workplace. This not only protects workers but can also help prevent damage to equipment and other property.

Improved efficiency: Workers who have received NFPA 70E arc flash training are better equipped to perform their jobs safely and efficiently. They can identify and avoid hazards more quickly and easily, leading to greater productivity and fewer delays.

Cost savings: Preventing accidents and injuries in the workplace can save companies significant amounts of money in lost productivity, medical expenses, and other costs. Companies can save money in the long run by investing in safety training courses to improve safety.

Overall, the benefits of NFPA 70E arc flash training are numerous and significant. By

investing in this training, individuals and companies can improve safety, comply with regulations, reduce accidents, improve efficiency, and save money.

Our NFPA 70e Training course will teach you how to:

- Define short circuits and electrical arcs.
- Understand arc flash parameters.
- Determine energy released during a short circuit and why you need to be protected.
- Learn techniques for reducing arc flash energy.
- Learn how to protect yourself and those around you from electrical hazards.
- Learn how to select proper personal protective equipment (PPE) for the right environment.

Dangers such as shock, electrocution, and arc blast will always be present on the job, but proper training and safety strategies can minimize the likelihood of injuries and fatalities. NFPA 70E - Electrical Safety in the Workplace - covers the full range of electrical safety issues from work practices to maintenance, special equipment needed, and installation. In fact, OSHA in the United States already bases its electrical safety mandates on the comprehensive information in this important Standard. Our course comes with an Arc Flash certificate of completion.

Upon completion, you should be able to:

- Pinpoint the changes to the latest edition, especially those affecting: Article 120, Establishing an Electrically Safe Work Condition, 110.1- Risk Assessment Procedure, Table 130.5, and Standards for PPE
- Understand the interaction between NFPA 70E and OSHA
- Define electrical safety hazards and how to protect against shock, electrocution and arc flash
- Identify safety policies and procedures employers are legally required to provide for their workers
- Describe the safety procedures needed to work safely while exposed to live circuits
- Determine arc flash PPE categories for many common workplace tasks and conditions

- Recognize the intent and limitations of personal protective equipment
- Describe energized and de-energized power circuits
- Identify the elements of an Electrical Hazard Analysis
- Use the NFPA 70E Arc Flash PPE Tables to determine the Arc Flash PPE Category for various tasks
- Identify safety-related maintenance issues for a wide range of electrical equipment, including those specific to batteries and battery rooms, electrical distribution equipment, and safety grounding equipment
- Identify the hazards to personnel working with equipment and employee responsibilities

WHO SHOULD ATTEND

Anyone whose job involves designing, reviewing, evaluating or installing electrical systems, including: designers, installers, engineers, electrical contractors, technicians, project managers, safety managers, inspectors, and others who are involved in hands-on electrical roles or maintenance planning.

- Industrial, commercial, institutional electrical professionals
- Electrical engineers
- Electrical technicians
- Plant electricians
- Linemen
- Electrical Supervisors
- Personnel who work on or near energized electrical equipment and systems

STUDENTS RECEIVE

- **FREE** 100-Page Digital Electrical Safety Handbook (Value $20)
- **$100 Coupon** Toward any Future Electricity Forum Event (Restrictions Apply)
- .6 Continuing Education Unit (CEU) Credits (6 Professional Development Hours)

- **FREE** Magazine Subscription (Value $25.00)
- Course Materials in PDF Format

COURSE OUTLINE

Live Online Instructor-Led NFPA 70E Training Course Outline

DAY ONE

Electrical Hazards

- Five main factors in electrical accidents
- Electrical shock
- Arc flash defined
- Incident energy defined
- Arc flash burn injuries
- Arc blast pressure
- Inhalation injuries

Existing and Proposed Standards

- NFPA 70e
- IEEE 1584
- OSHA
- Occupational health and safety act and regulations

Shock Hazards & Protection Strategies

- Understanding Shock
- Variables Impacting Hazard
- Protection Boundaries
- Voltage Rated Gloves and Other Shock PPE
- Rated Insulated Tools and Other Equipment

Arc Flash Hazards & Protection Strategies

- Causes/Types
- Arc Blast
- Common Places
- Mitigating Hazard through Engineering Design and Work Methods
- Arc Flash Boundaries
- Practical Application

Arc Rated Personal Protective Equipment

- Overview
- Protecting Head, Hands and Feet
- PPE Programs: Categories, Levels, Systems
- Environmental Considerations
- PPE Guidelines and Maintenance

Job Planning

- Elements of Safety Planning
- Job Briefing
- Energized Electrical Work Permit

Risk Assessment

- Components of Assessment
- Methods: Tables or Incident Energy Calculations
- Labeling
- Steps to Determine PPE Required
- Task Assessment Exercise

Safety Related Work Practices

- Defining “Electrically Safe Work Condition”
- Identifying and Securing Boundaries
- Tools and Equipment
- Best Practices for Lock Out/Tag Out, Verifying

COURSE SCHEDULE:

Start: 10 a.m. Eastern Time
Finish: 4:30 p.m. Eastern Time

Contact us Today for a FREE quotation to deliver this course at your company’s location.

https://www.electricityforum.com/onsite-training-rfq