



Content  
Community  
Connection

United States  
The Electricity Forum Inc.  
742 Pre Emption Road  
Geneva, NY 14456  
Tel 289-387-1025

Canada  
The Electricity Forum  
1885 Clements Rd, Unit 218  
Pickering, ON L1W3V4  
Tel 905-686-1040  
Fax 905-686-1078  
Toll Free 855-824-6131

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## NFPA 70e Training

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

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

Our NFPA 70e training course is designed to help companies fulfill requirements of OSHA 29 CFR Part 1910, Subpart S Electrical and NFPA 70E® “Standard for Electrical Safety in the Workplace,” which requires this type of instructor-led training for anyone working with electrically energized equipment. This course includes changes in the latest version of NFPA 70E.

is instructed by one of North America's leading experts on Arc Flash and Arc Blast Hazard Protection and Mitigation. He will present new content NOT covered in our previous Arc Flash training courses and report on recent code revisions from NEC and NFPA, and the National Electrical Code. We teach general electrical safety principles and train electrical professionals on how to best develop an effective electrical safety program. Between these two elements, there will be plenty of examples and exercises for delegates to follow and then take back and apply to their electrical safety work practices.

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 requirements, and installation. In fact, OSHA in the United States already bases its electrical safety mandates on the comprehensive information in this important Standard.

**Upon completion you should be able to:**

- Pinpoint the changes to the 2018 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 requirements
- 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 requirements for energizing and de-energizing power circuits
- Identify the elements of an Electrical Hazard Analysis
- Use the NFPA 70E Arc Flash PPE Tables to determine Arc Flash PPE Category for various tasks
- Identify safety-related maintenance requirements 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)
- 1.4 Continuing Education Unit (CEU) Credits
- **FREE** Magazine Subscription (Value \$25.00)
- Course Materials in Paper Format

## COURSE OUTLINE

### **NFPA 70e Training**

## **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: 8:00 a.m.

Coffee Break: 10:00 a.m.

Lunch: 12:00 noon

Restart: 1:15 p.m.

Finish: 4:30 p.m.

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