



ARC FLASH ELECTRICAL SAFETY [based on NFPA 70E]: REFRESHER AND CHANGES - DURATION: 1 DAY - 8 HOURS



Live Online Training
Single Class Capacity: 15



Onsite – In Class Training
Single Class Capacity: 25

Now available both classroom and Live Online with digital simulations.

This course is intended for electrical workers, supervisors, managers responsible for electrical workers and HES personnel who are responsible for electrical safety programs and, the health and safety of workers. This course meets the requirements specified for 3-year refresher training in the NFPA70E® standard: “Retraining in safety-related work practices and applicable changes in this standard shall be performed at intervals not to exceed 3 years.”

There are other specific requirements for training to occur more often.

WHAT THIS COURSE COVERS

- Risk assessment procedure; the hierarchy of risk controls and human errors
- Establishing an electrically-safe work condition that includes Lockout/Tag out principles and procedures
- Estimate of the likelihood of occurrence of an arc flash incident for AC and DC systems
- Selection of arc-rated clothing and other personal protective equipment (PPE) using the incident energy analysis method

WHO SHOULD TAKE THIS?

- Electrical workers
- Maintenance Techs
- Electrical Supervisors and Managers
- HES/Safety Personnel
- Electrical Contractors
- Other qualified electrical workers

COURSE OUTCOMES

- Risk assessment procedure; the hierarchy of risk controls and human errors
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Every NTT course is eligible for CEUs (or Continuing Education Units) with your governing board approval or your states approval.



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COURSE AGENDA



Indicates new online simulations

1. Electrical Safety and Your Electrical Safety Program

- Review of the latest data
- Updating your electrical safety program to the most current requirements
- Definitions – new and revised
- Maintenance issue requirements
- New Job Safety Plan and job briefings requirements
- Incident investigations mandated for company electrical safety programs
- Requirements to use a Hierarchy of Controls for risk assessment
- Training requirements changes
- Test Instruments, extension cords and GFCI requirements



Online Simulation: compare the NFPA requirements to their own company's electrical safe work program.

2. The Potential Hazards Faced by Electrical Workers

- Review of shock, arc flash and arc blast hazards
- Current methods of shock and arc flash mitigation



Online Simulation: Understanding the hazards of electricity.

3. Electrical Safe Work Practices and Procedures

- Implementing a Risk Assessment approach as opposed to unquestioned compliance
- NFPA 70E change reflecting the use of new technologies for equipment inspections for operation. (from Chapter 2)
- Changes to DC voltage requirement
- New Job Safety Planning requirements: Estimating likelihood and severity of hazards
- Interpreting Equipment Labels
- Changes in Table usage for both the "incident energy analysis method" and the "PPE category method"



Online Simulation: Fill out a job safety assessment.

4. Electrical Personal Protective Equipment

- New table for selection when using the incident energy method
- Changes to the "table Method" for PPE selection
- New explanation of the six-month requirement on glove testing
- Review of inspection and usage requirements for electrical PPE



Online Simulation: Complete an inspection of Electrical Personal Protective Equipment.



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COURSE AGENDA (Continued)



Indicates new online simulations

5. Normal Operation of Electrical Equipment

- Understanding the new inspection requirement
- Practical examples of using the six requirements to determine if electrical equipment can be operated normally or if additional protection is required



Online Simulation: Understand “Normal Operation” of electrical equipment.

6. Establishing the Electrically Safe Work Condition

- Realignment of Article 120
- Additional requirements for establishing an electrically safe work condition



Online Simulation: Review establishing an electrically safe work condition.

7. Electrical Emergency Response

- Requirements for Electrical Emergency Response Training
- Review of the NTT emergency response plan

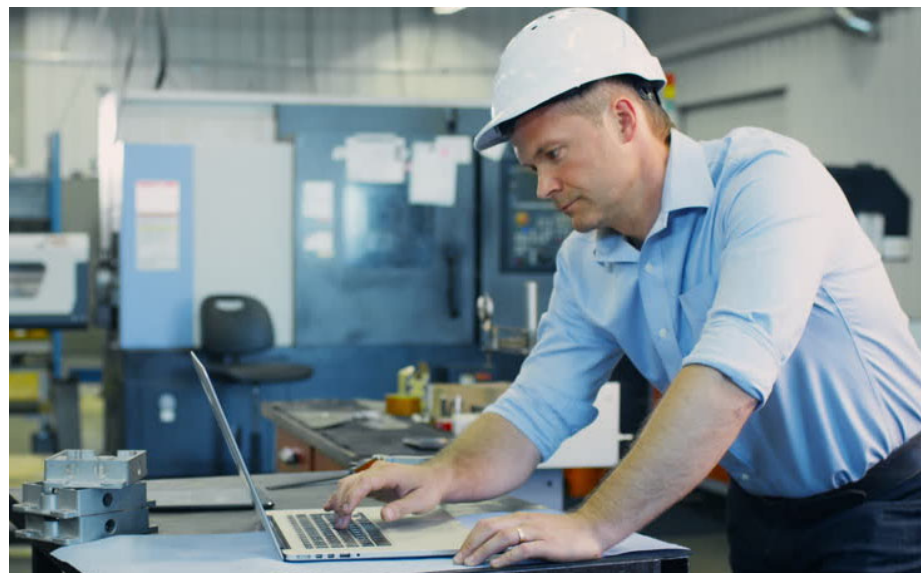


Online Simulation: Understanding the steps of conducting an Emergency Response Drill.

8. Summary, questions and quiz



Online Exam and Course Evaluation





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EQUIPMENT DETAILS

CLIENT TO PROVIDE

For LIVE ONLINE TRAINING ONLY

Client Provided Computer Requirements

- Internet Access through a computer (laptop or desktop)
- Computer Speakers
- Computer Microphone
- Computer Web Camera
- Ability to download and view files online
- Browser Requirements for NTT's online portal are as follows:
 - Chrome 78 and 79
 - Firefox 71 and 72 (Extended Releases are not supported*)
 - Edge 44 (Windows only)
 - Edge 79
 - Safari 12 and 13 (Macintosh only)

For CLASSROOM TRAINING

- Classroom of 900 square feet or greater
- Projection screen



NTT PROVIDED STUDENT MATERIALS

- Text: NFPA 70E® Standard for Electrical Safety in the Workplace®
- Text: NTT's Arc Flash Electrical Safety [based on NFPA 70E®] Workbook
- Job Aid: NTT's Electrical Safety Job Aid for the 2018 edition