

Personal Safety

Regulation Update: NFPA 70E 2018 Changes

Brought To You by Brady | Jan 22, 2018

Overview

The 2018 update includes some of the following changes:

- Continued emphasis on training
- Distinctions between employer and employee responsibilities
- A greater focus on hazard elimination
- Required job safety plan documentation with risk assessments

Training Requirements

Retraining should still occur every 3 years, and the 2018 update indicates that employees must also be retrained if their job duties change, or when procedures are not being followed (as observed by annual inspections or supervision).

Training should include:

- Specific hazards associated with electrical energy
- Special precautionary techniques and safety related work practices
- PPE, insulating and shielding materials, insulated tools and test equipment
- Emergency response and AED training
- Skills and techniques to distinguish energized parts determine nominal voltages
- Approach distances
- Decision making process and ability to perform job tasks

Training sessions must be documented and verified at least annually, and participants must be able to demonstrate knowledge. To help keep your workplace safe and compliant, check out the CSEM training quote tool for onsite ***Arc Flash Training***.

Employer vs. Employee Responsibilities

Previously, NFPA 70E just addressed the employer when it came to safety-related work practices. Now this section is subdivided as follows:

Employer:

Establish, document and provide training.

Employee:



Must comply with safety related work practices and procedures provided by the employer.

Equipment Labeling

Old Label Versions. The recent update allows labels applied prior to the effective date of this edition of the standard to be acceptable if they complied with the requirements for equipment labeling in the standard in effect at the time the labels were applied (unless changes in electrical distribution system render the label inaccurate). See the ***Seven Elements of an Arc Flash Label***.

Document and Review. Document the method of calculating and the data to support the information for the label and review for accuracy at intervals not to exceed 5 years. Where the review of the data identifies a change that renders the label inaccurate, the label shall be updated.

The owner of the electrical equipment shall be responsible for the documentation, installation and maintenance of the marked label.

 WARNING	
Arc Flash Hazard Appropriate PPE Required	
Flash Protection Boundary _____	
Flash Hazard Category _____ Incident Energy (cal/cm ²) _____	
FLASH PPE	<input type="checkbox"/> FR coverall <input type="checkbox"/> Hearing protection <input type="checkbox"/>
<input type="checkbox"/> Long-sleeve shirt <input type="checkbox"/> Flash suit <input type="checkbox"/> Safety glasses <input type="checkbox"/>	
<input type="checkbox"/> Long pants <input type="checkbox"/> Flash hood <input type="checkbox"/> Safety goggles <input type="checkbox"/>	
<input type="checkbox"/> FR shirt <input type="checkbox"/> Hard hat <input type="checkbox"/> Leather gloves <input type="checkbox"/>	
<input type="checkbox"/> FR pants <input type="checkbox"/> Face shield <input type="checkbox"/> Leather shoes <input type="checkbox"/>	
Equipment ID: _____	
BRADY #99460 BRADYID.COM Y953126 	

Establishing an Electrically Safe Work Condition

Exception for “Simple Procedures”: When it comes to equipment that is cord- or plug-connect – for which exposure to the hazards of unexpected energization is controlled by the unplugging of the equipment from the energy source, and the employee performing maintenance is under exclusive control of the plug – lockout/tagout is not required.

The 2018 update also added two additional steps to the process for establishing and verifying electrically safe work conditions:

- Release stored electrical energy
- Release or block stored mechanical energy

Learn more about Arc Flash protection

Check out *5 Arc Flash Protection Tips for a Better Fire Safety Plan*.

Work Involving Electrical Hazards

Shock Risk Assessment was modified to require documentation and more information regarding additional protective measures.

Arc Flash Risk Assessment was modified to identify hazards, estimate the likelihood of occurrence and if additional protective measures are required.

Two methods for conducting an assessment:

- Incident Energy Analysis Method
- Arc Flash PPE Category Method

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