

Safety

NFPA 70E® – ARC Flash Awareness Course Description

COURSE AGENDA

Day 1

- Arc Flash Ruling
- Operational Voltage
- Arch Flash Hazard
- Flash Hazard Statistics
- Protecting the Electrical Worker
 - Company Safety Programs
 - Electrical Safety Program
 - Government Regulations
 - OSHA 29 CFR 1910.333(a)(1)
 - OSHA 29 CFR 1910.335
 - OSHA29 CFR 1910.132(d)(1)
 - Enforcement
- Applicable Standards
 - 2002 NEC Article 110.16 Flash Protection
 - NFPA 70E® 2009 110.8(A)
 - Electronically Safe Work Conditions
 - Qualified Person
 - NFPA 70E® 2009 130.3
- ARC Flash Hazard Boundary Terms
 - Flash Protection, Limited, Restricted and Prohibited Approach
- Arch Flash Calculations Review (NFPA 70E®)
 - Flash Protection Boundary Calculation
 - Introduction to PPE Selection Based on Incident Energy Calculations
- PPE Selections (NFPA 70E®)
 - PPE Selection Based on Article 130 Tables
 - Calculations are Based on NFPA 70E® Methods
- Over-current Protective Devices
- Arc Flash Considerations
- Safety –Related Work Practices



COURSE NUMBER: SAF-SFT106

Course Purpose

Upon completion of this course is to provide the student with an overall understanding of the current requirements of 2009 NFPA 70E®. A complete review of the standard will be provided, along with a review of the calculation methods and tables used in the standard for establishing the ARC Flash Boundary and proper personal protective equipment (PPE).

This course will present the following major topics:

- Review of NFPA 70E®
- Calculating flash protection boundary
- NFPA 70E® Standards on PPE
- Safe Electrical Practices

Who Should Attend

Individuals that require access to, or will be exposed to the work area designated by the flash protection boundary should attend this course.

Prerequisites

To successfully complete this course, the following prerequisites are required:

- Familiarity with basic electricity
 - Proficiency in student's respective classification
- OR
- Enrolled in an up-grader/apprentice program

Student Materials

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- *Student Manual*, which contains the topical outlines and problem-solving exercises.
- *NFPA 70E®: Standard for Electrical Safety in the Workplace®, 2009 Edition*, which provides key concepts, definitions and certification requirements.

Hands-On Practice

Throughout this course, you will have the opportunity to practice the skills you have learned through class interaction and observational exercises. The interactive exercises focus on awareness, safe work practices, maintenance requirements, calculation methods, boundaries, and regulations learned during the lessons.

Course Length

This is a one-day course.

Course Number

The course number is SAF-SFT106.

IACET CEUs

CEUs Awarded: 0.7



To Register

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

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