

Safety

NFPA 70E® 2015 – Arc Flash Awareness Course Description

COURSE AGENDA

Day 1

- Course Introduction
- OSHA Final Rule
- Arc Flash Hazards, Statistics, and Considerations
- Protecting the Electrical Worker
 - Safety-Related Work Practices
 - Electrical Safety Program
 - OSHA General Duty Clause
 - OSHA 29 CFR 1910 Subpart S Requirements
 - NFPA® 70E 2015 Requirements
 - 2014 NEC Article 110.16 Arc Flash Hazard Warning
- Electrical Safety Terminology
 - Arc Flash Boundary
 - Arc Rating
 - Electrically Safe Work Condition
 - Incident Energy
 - Overcurrent Protective Devices
 - Shock Protection (Limited and Restricted Approach) Boundaries
 - Qualified Person
- Arc Flash Calculations Overview (NFPA® 70E 2015)
 - PPE Selection Based on Article 130 Tables
 - Arc Flash Boundary Calculation
 - Introduction to PPE Selection Based on Incident Energy Calculations



COURSE NUMBER: SAF-SFT10615

Course Purpose

The purpose of this course is to provide the student with an overall understanding of the current requirements of NFPA® 70E. A complete review of the standard will be provided, along with a review of the tables used to determine the Limited and Restricted Approach Boundaries and tables and calculation methods used to determine the Arc Flash Boundary and for determining proper personal protective equipment (PPE).

This course will present the following major topics:

- Review of Work Practices required by NFPA® 70E Standard for Electrical Safety in the Workplace
- Determining Limited and Restricted Approach Boundaries
- Determining/Calculating the Arc Flash Boundary
- Selection of Personal Protective Equipment

Who Should Attend

Individuals that require access to, or will be exposed to the work area designated by the arc flash or limited approach boundaries 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

Technology Requirements

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

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 2015 Standard for Electrical Safety in the Workplace*

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-SFT10615.

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.

You can also access course information via the Web at <http://www.rockwellautomation.com/training>

www.rockwellautomation.com

Power, Control and Information Solutions

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