

# Craft Skills

## Electrical Safety for Qualified Electrical Personnel Course Description

### COURSE AGENDA

#### *Day One*

- Listing Applicable policies and regulations
- Defining a Qualified Person.
- Following General Safety Precautions
- Describing the Voltage Level Convention
- Applying Tool and Equipment Safety
- Controlling Hazardous Energy
- Working on Energized Equipment
- Following the Requirements of 1910.269(1)
- Following the Requirements of 1910.33

#### *Day Two*

- Utilizing Arc Flash Protection
- Using and Maintaining Personal Protective Equipment
- Applying Protective Grounding
- Changing Fuses
- Operating Switchgear and Circuit Breakers
- Listing Compliance Guidance



### COURSE NUMBER: FND-035

#### *Course Purpose*

Upon completion of this course, the participants will be able to discuss potential workplace hazards and the associated precautions, personal protective equipment used in the plant, and personnel responsibilities under that comply with OSHA part 1910 regulations.

Upon completion of this course, the participants will be able to describe the following:

- Describe general safety hazards and precautions associated with electrical systems.
- Describe electrical tool and equipment safety.
- Define voltage level conventions for electrical systems.
- Describe electrical system lockout/tagout requirements.
- Identify the requirements for working on energized equipment.
- Given a scenario, describe the requirements associated with arc flash protection.
- Given a scenario, discuss the proper use of personal protective equipment.
- Describe the proper use of electrical protective rubber goods.
- Explain the requirements for protective grounding.
- Describe the electrical safety requirements associated with fuses.
- Describe the electrical safety requirements associated with switchgear and circuit breakers.
- Describe the electrical safety requirements for batteries and DC systems

### ***Who Should Attend***

- All facility non-electrical and non-technical personnel.

### ***Prerequisites***

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

- None

### ***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 key concepts, definitions, and examples presented in the course and includes the hands-on exercises.

### ***Next Learning Level***

Once you have mastered the skills covered in this course, you may want to attend specific training, such as:

- *Basic Electrical Concepts*

### ***Course Length***

- *This is a 2 day course.*

### ***Course Number***

- *The course code is FND-035*

### ***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>

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