

# BASIC INDUSTRIAL electricity II

## Basic Industrial Electricity II



### **Training Description:**

This seminar is designed for those individuals who are familiar with the concepts covered in our Basic Industrial Electricity seminar and want to further their training in this field. Attending Basic Industrial Electricity is not a prerequisite for attending this seminar, but it is recommended.

This seminar will cover three-phase motors in more detail than Basic Industrial Electricity. Motor construction, nameplate data, and principles of operations will be discussed, as well as terminal markings, electrical connections, and enclosures styles. Attend this seminar and learn how to properly size overloads, fuses, and circuit breakers to protect motors. The attendee will learn the common causes of failure for electric motors and the proper steps necessary in troubleshooting. PLCs will also be introduced and discussed in the context of how they apply to maintenance personnel. This will be a good introduction for someone who knows little about them. We will discuss general operation and basic troubleshooting procedures. The material covered in this seminar will be **practical** and is designed to make an **immediate** positive **impact** to your maintenance department.

### **Training Topics:**

#### **THREE-PHASE MOTORS**

- Construction
- Nameplate
- Motor Enclosure
- Motor Connections
- Principles of Operation

#### **MOTOR CIRCUIT COMPONENT SIZING**

- Ground Fault / Short Circuit Protection
  - Fuses
  - Circuit Breakers
- Motor Starters
- Overload Protection

#### **TROUBLESHOOTING**

- Motors
  - Common Causes of Failure
  - Motor Checking
- Control Circuits

#### **PROGRAMMABLE LOGIC CONTROLLERS**

- What They Do
- How They Do It
- Troubleshooting Basics

#### **CLASS DISCUSSION AND REVIEW**



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