

## **PLC 2**

### TRAINING COURSE OUTLINE

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#### **COURSE SUMMARY**

This course focuses on PLC part identification, I/O devices, module addressing, power wiring, and module wiring for inputs and outputs. Participants will gain hands-on experience in wiring digital inputs, digital outputs, analog inputs, and analog outputs. The course also covers troubleshooting techniques for power supplies, input modules, output modules, CPUs, and common failures in both hardware and software.

By the end of this course, participants will have practical skills in PLC wiring, troubleshooting, and maintenance, preparing them to effectively manage PLC systems in industrial environments.

#### **COURSE OBJECTIVES**

- Understand the setup of PLC systems
- Understand how PLCs interact with I/O devices.
- Understand I/O addressing of common PLCs
- Understand the wiring of I/O devices to PLC I/O modules
- Perform troubleshooting of most PLC related problems

#### **COURSE OUTLINE**

- Introduction
  - PLC Part Identification
  - PLCs and I/O devices
  - I/O module Addressing
  - Power wiring
  - Input Module Wiring Overview
  - Output Module Wiring Overview
  - Hands-on wiring
  - Digital Inputs
  - Digital Outputs
  - Analog Inputs
  - Analog Outputs
  - Troubleshooting the power supply
  - Troubleshooting input modules
  - Troubleshooting output modules
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- Troubleshooting the CPU
- Common failures
- Troubleshooting II
- Hardware
- Software