

# **BASIC HANDS-ON PLC fundamentals & troubleshooting I**

## **Basic Hands-On PLC Fundamentals & Troubleshooting I**

**1-DAY  
TRAINING**

### **Training Description:**

Understanding and repairing equipment controlled by PLCs can be very frustrating without a working knowledge of PLCs. By taking the student through numerous in-class, hands-on activities, this intensive hands-on seminar has been designed to take the mystery out of Programmable Logic Controllers.

This seminar will take you step-by-step through testing the power supply, input and output devices on an actual PLC. You will use our advanced PLC trainers to learn the process of connecting devices to the PLC and writing programs to make them work by actually doing it. With an emphasis on making you a better PLC troubleshooter, this Hands-On class will give you the knowledge to help you succeed in today's automated world.

### **Training Topics:**

#### **PROGRAMMABLE LOGIC CONTROLLERS**

- What They Do
- How They Do It

#### **MAJOR COMPONENTS OF THE PLC**

- Input/Output Modules
- Central Processing Unit
- Power Supply
- Programming Device

#### **PLC CONFIGURATIONS**

- Integral
- Modular

#### **PLC BASICS**

- Connection Points
- Component Operation
- Troubleshooting "Check the Lights"

#### **PLC PROGRAMMING PRINCIPLES**

- Numbering Systems
- Addressing
- Instruction Sets
- Program Execution

#### **PLC DOCUMENTATION**

- Ladder Drawings
- Ladder Logic
- Cross Reference

#### **EMPHASIS ON ELECTRICAL SAFE WORK PRACTICES**

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



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