

HANDS-ONPLC **troubleshooting, maintenance, & programming** **using MicroLogix 1000**

Hands-On PLC Troubleshooting, Maintenance, & Programming Using MicroLogix 1000

**3-DAY
TRAINING**

Training Description:

This hands-on program is a practical look at programmable controllers. It is intended to familiarize you with Programmable Logic Controller concepts. It will be kept very practical and most of the time you spend in class will be with your hands actually on a PLC; learning to program, edit, diagnose, and troubleshoot. The emphasis will be on teaching you concepts that will make you a better troubleshooter. Learning to repair equipment controlled by PLCs can be frustrating without a working knowledge of PLCs. In this program you will learn the concepts to help you repair equipment faster and make changes to existing programs in your plant. This powerful program will teach you what the pros know about PLCs.

Training Benefits:

- Capability of writing programs on your own
- Develop advanced troubleshooting skills
- Better understanding of programming
- Applicable skills available upon return to the workplace

Prerequisite: None
Standard Class Size: Up to 14
Program Length: 12 hours
CEU s: 1.2

Training Topics:

You will complete numerous instructor-led exercises which will get more challenging with each new assignment. Some will be modifying a program from an earlier exercise; others will be developing entirely new programs that the attendees will write as a team or individually. At the completion of training, you will be creating programs on your own, which will leave you with a feeling of accomplishment. This information is applicable to any brand of PLC.

PLC COMPONENTS

- I/O Section
- CPU
- Power Supply
 - Addressing
- What is Addressing
- Types of Addressing
 - Ladder Logic vs Statement Lists
- Instruction Set
- Conditional Instructions
- Output Type Instructions
- Timers
 - Troubleshooting The PLC
- General Troubleshooting Rules
- Proper Meter Usage
- Understanding the PLC Lights
- Output Section Troubleshooting
- Internal vs External Problems
 - 18 Hands-On Labs With Troubleshooting

CLASS DISCUSSION AND REVIEW

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