

PLCs [Programmable Logic Controllers]: Fundamentals



Program a PLC to provide real-time, interactive, diagnostics that pinpoints the issues. Use other troubleshooting methods such as the search function, cross references, histograms and forces.

This course is beneficial for anyone who encounters control systems in their daily functions, such as engineers, maintenance, operations and management personnel.

WHAT THIS COURSE COVERS

- Recognition of Return on Investment
- HMIs as a Troubleshooting Tool
- PLC Networking Capabilities

WHO SHOULD TAKE THIS

- Engineers, Maintenance, Operations and Management Personnel
- IT Technicians
- Instrumentation Technicians
- Maintenance Technicians
- Automation Technicians
- Multi-Craft Personnel
- Anyone who needs Cross-Training on PLCs

COURSE OUTCOMES

- Understand the advantages and disadvantages of using PLCs
- Recognize the different hardware components of the PLC, including power supplies, input modules, output modules, central processing units and programming devices
- Understand how the ladder logic software and communication software interact to allow data to transfer between a PLC and a programming computer

COURSE AGENDA

- History
- PLC Architecture
- INPUT and OUTPUT Systems
- Ladder Logic Versus Relay Logic
- Relay Logic Instructions
- Addressing, Data Memory, and Scan Time
- Additional Instructions & Associated Bits
- Number Systems
- Sizing and Selection of PLCs
- Troubleshooting and Diagnostics

Lecture

Hands-on

• **ONSITE:** 3-days (24 hours)

• **LIVE ONLINE:** N/A



ONSITE - TRAINING TOUR - LIVE VIRTUAL - ONLINE - HANDS ON - AUDITS - CONSULTING - **TRAINED WORKERS. STRONGER COMPANIES.**
NTT TRAINING INC. • 1.800.922.2820 • www.nttinc.com • contact@nttinc.com

PC Course Overview and Agenda v01142025.docx