

// Career Pathway

BASIC AND ADVANCED PROGRAMMABLE LOGIC CONTROLLERS (PLC'S)

Unlock the Power of PLC Training for Enhanced Efficiency and Profitability

In the dynamic world of manufacturing, turnover is inevitable. Programmable Logic Controller (PLC) trained technicians hold a competitive edge. Offering these training pathways can become an invaluable asset in attracting and retaining skilled personnel.

For many employers, the ControlLogix (CLX) system is the backbone of automation, offering a robust platform to control, monitor, and optimize a wide range of industrial processes. Unscheduled downtime demands swift problem-solving by maintenance personnel. WorkForge's Advanced PLC training equips technicians to troubleshoot efficiently, minimizing downtime and ensuring smooth operations, making it a smart investment for plant managers.



The PLC Pathway can be used during onboarding as the first line of defense in preventive maintenance, guaranteeing that newly employed technicians possess the necessary skills to troubleshoot and contribute effectively to plant operations.

▶ **\$260,000 per hour**

Is the estimated downtime cost to manufacturing facilities according to analyst firm Aberdeen Research.

Equipment failure is the most common cause of downtime. Reduce your downtime and improve your productivity with a properly trained workforce.

Benefits of the PLC Technician Pathway:

-  100% on-line administration and training so your employees can learn anywhere, anytime.
-  Rich interactive training and assessments with over 17,000 graphic and multimedia elements.
-  Immediate practical application, where maintenance techs can apply learnings in their daily tasks.

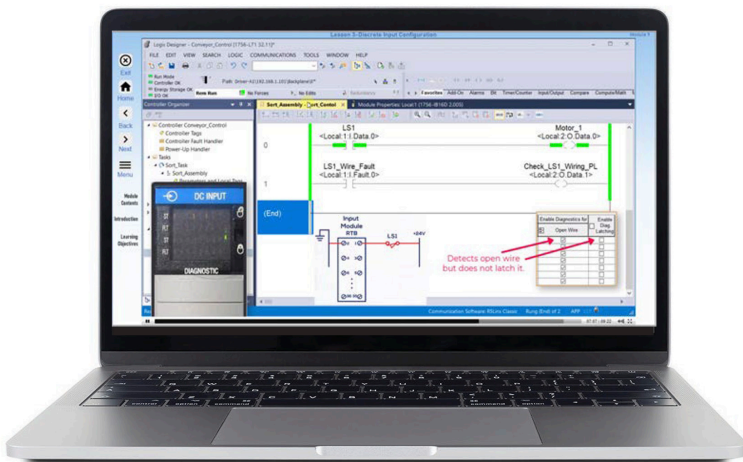
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Basic PLC Course Offerings:

- Introduction to Programmable Controllers
- Introduction to Digital Electronics
- Type of Functions of Programmable Controllers
- General Structure of PLC
- Physical Integration of the PLC
- Internal Structure of the CPU
- Common PLC Applications

Advanced PLC Course Offerings:

- Introduction to the ControlLogix–General Structure, Number Systems, and Basics of Boolean Logic
- ControlLogix Hardware Composition, I/O Structure and Architecture–Introduction to Tags
- Navigating the Studio 5000 Software and Creating, Opening and Understanding Projects
- Connecting to the Controller–Establishing RSLinx Connection to the Network
- ControlLogix Project Organization and Frequently Used Tag Structures
- Troubleshooting Ladder Diagram Logic in the ControlLogix System
- Creating and Editing Tags and Code–Documenting Troubleshooting Changes
- Troubleshooting Using the Studio 5000 Software–Using I/O Forcing and Toggling Functions
- Troubleshooting ControlLogix Hardware–Discrete and Analog I/O
- Troubleshooting Remote I/O, Controller and Power Supply–Using the Trend and Compare Tools to Troubleshoot



// Did You Know?

Our Advanced PLC courses complement and support the employee's training requirements for OSHA 29 CFR 1090.332 and ISO 9000 Section 4.18 regulations.