

PLCs [Programmable Logic Controllers]: ControlLogix & RSLogix 5000



A DIVISION OF ECPI UNIVERSITY

This course will introduce students to the Allen-Bradley ControlLogix® platform. It begins with an overview of the hardware and migrates into an introduction of RSLogix™ 5000 software. You will be introduced to basic Logix5000™ concepts and terminology, and you will be exposed to Logix5000™ system hardware with hands-on experience. You will also have an opportunity to use RSLogix™ 5000 software to perform basic system configuration and troubleshooting tasks. Students will receive a basic understanding of the structure of a ControlLogix® program, which includes an introductory look at Routines and the Tag Database. Differences will be explained between this platform and conventional PLC-5™ and SLC-500™ products.

WHAT THIS COURSE COVERS

- Set up Communication with the Processor.
- Go Online with the Project, and Locate an Output that will not Energize such as a Solenoid or Relay.
- How to Trace the Output through the Program to Determine the Root Cause of a Problem.
- Find out why the PLC is not Calling for the Output to Energize.
- Learn about Instructions in the PLC, and Other Troubleshooting Tools that are Available to Minimize Downtime.

WHO SHOULD TAKE THIS

- IT Technicians
- Instrumentation Technicians
- Maintenance Technicians
- Automation Technicians
- Multi-Craft Personnel
- Anyone who Needs Cross-Training on PLCs

COURSE OUTCOMES

- Navigate and Interpret ControlLogix Programs with Self-Confidence to Troubleshoot Malfunctioning Machinery.
- Understand the ControlLogix Processor's Scan Sequence.
- Upload and Download ControlLogix Programs.
- Understand and Diagnose Analog and Digital I/O.

COURSE AGENDA

- Logix™ Hardware Overview
- RSLogix™ 5000 Communications with RSLinx™ Configuring RSLinx™ Software Drivers for Various Communication Hardware
- RSLogix™ 5000 Software Introduction
- RSLogix™ 5000 Tasks, Programs, and Routines
- RSLogix™ 5000 Discrete I/O
- Basic Relay Type Instructions
- Editing Ladder Logic
- Timers and Counters
- Arrays and Data Types
- Adding Analog I/O
- RSLogix™ 5000 Documentation
- RSLogix™ 5000 Program Control
- RSLogix™ 5000 Comparison and Basic Math Instructions
- Searching and Trending
- ControlLogix Indicators
- Troubleshooting
- Introduction to System Instructions
- Introduction to Advanced Instructions
- Introduction to Add-On Instructions

Lecture Hands-on • **ONSITE:** 5-days (40 hours) • **LIVE ONLINE:** 2-Days (16 hours)



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