

Accelerated Logix5000 Maintainer Certificate Level 1

OEM: Rockwell Automation • Duration: 5 Days (40 hrs) • Code: CCP300

COURSE MODULES & TOPICS

Course Purpose

- Learning basic concepts and terminology used with: Logix5000 system hardware
- The Studio 5000 Logix Designer application
- RSLinx® Classic software
- Practicing a strategy for diagnosing and troubleshooting problems: Configuration issues with controllers, I/O, or other hardware
- Electrical noise
- Faulty/malfunctioning field devices
- EtherNet/IP™ network issues

Objectives

- Understanding Control Systems
- Locating Logix5000 System Components
- Connecting a Computer to a Communication Network
- Assigning IP Addresses for an EtherNet/IP Network using RSLinx Classic Software and Rotary Switches
- Navigating Through the Studio 5000 Logix Designer Application
- Downloading, Uploading, and Going Online
- Locating I/O Tags and Devices
- Interpreting, Monitoring, and Editing Tag Values
- Isolating Problems in a Logix5000 System
- Troubleshooting Electrical, Digital I/O Module, Analog I/O Module, Logix5000 System EtherNet/IP Network and Distributed I/O Module Problems
- Interpreting Simple Ladder Logic Structure
- Documenting and Searching Ladder Logic

Prerequisites

- Experience reading wiring diagrams
- Completion of at least one Rockwell Automation Logix5000 course in the last two years
- Pursuing a Logix5000 Certificate for Maintainers

Student Materials

- Student Manual – Includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book – Provides learning activities and hands-on practice. Solutions are included after each exercise for immediate feedback

Course Agenda

Day 1

- Understanding Control Systems • Locating Logix5000 System Components
- Connecting a Computer to a Communication Network
- Assigning IP Addresses for an EtherNet/IP Network using RSLinx Classic Software and Rotary Switches
- Navigating Through the Studio 5000 LogixDesigner Application

Day 2

- Downloading, Uploading, and Going Online
- Locating I/O Tags and Devices
- Interpreting, Monitoring, and Editing Tag Values
- Isolating Problems in a Logix5000 System
- Troubleshooting Electrical Problems
- Troubleshooting Digital I/O Module Problems

Day 3

- Troubleshooting Analog I/O Module Problems
- Troubleshooting Logix5000 System EtherNet/IP Network Problems
- Troubleshooting Distributed I/O Module Problems
- Integrated Practice – Troubleshooting Logix5000 Hardware and EtherNet/IP Network Problems
- Interpreting Simple Ladder Logic Structure
- Documenting and Searching Ladder Logic

Day 4

- Forcing I/O and Toggling Bits
- Editing Ladder Logic Online
- Interpreting Timer and Counter Instructions
- Interpreting Math, Comparison, and Move Instructions
- Interpreting Copy and File Fill Instructions

Day 5

- Interpreting Program Control Instructions
- Analyzing and Troubleshooting a System Using a Trend Chart
- Troubleshooting Logix5000 Controller Problems
- Updating Logix5000 Firmware
- Managing Studio 5000 Logix Designer Project Files

Ready to talk to a Training Enrollment Specialist?

- [Social Media Cookies](#)
- [Functional Cookies](#)
- [Performance Cookies](#)
- [Marketing Cookies](#)
- [All Cookies](#)