



**AUTOMATION**

**COURSE CCP300**

## Accelerated Logix 5000 Maintainer Certificate Level 1

This accelerated course is for individuals who can quickly learn and apply Logix5000™ concepts, terminology, hardware troubleshooting skills, and interpretation of ladder logic in a Studio 5000 Logix Designer® project.

This course prepares you for the Logix5000 Maintainer Certificate Course Level 1 certificate exam, which is included in the course price.

You will have the opportunity to develop and practice these skills by:

- 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

Upon completion of this course, you should be able to troubleshoot a previously operational Logix5000 system and restore normal operation.

**Monday, January 12 -  
Friday, January 16**

**8 AM - 5 PM**

**SMC Sedalia  
1616 W Main St  
Sedalia, MO**

**Cost: \$3,742**  
Includes Lunch



**Authorized  
Service Provider**

A ROCKWELL AUTOMATION PARTNER

To register, please contact Ashli Anderson at [aanderson@smcelectric.com](mailto:aanderson@smcelectric.com)

# Course Agenda

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## 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



## PREREQUISITES

- Experience reading wiring diagrams
- Completion of at least one Rockwell Automation Logix 5000 course in the last two years
- Pursuing a Logix5000 Certificate for maintainers

To register, please contact Ashli Anderson at [aanderson@smcelectric.com](mailto:aanderson@smcelectric.com)