

Studio 5000 Logix Designer Level 1: ControlLogix Fundamentals and Troubleshooting

Upon completion of this course, you should be able to troubleshoot a previously operational ControlLogix® system and restore normal operation. You will have the opportunity to develop and practice these skills by:

- Learning basic concepts and terminology used with:
 - ControlLogix system hardware
 - Studio 5000 Logix Designer® application
- Practicing a systematic strategy for diagnosing and troubleshooting problems:
 - Configuration issues
 - Electrical noise
 - Faulty/malfunctioning field devices
 - Controller I/O, or other hardware issues
- Performing hands-on exercises

All Logix5000[™] systems use the same control engine; therefore, tasks are similar. You will see applicable references for other systems.

Monday, October 20 12 PM - 5 PM

Tuesday, October 21 - Friday, October 24 8AM - 5 PM

SMC Cape Girardeau 2333 Rusmar St Cape Girardeau, MO

Cost: \$3,503 Includes Lunch (except Monday)



Course Agenda

- Locating ControlLogix Components
- Navigating through the Studio 5000 Logix Designer Application
- Connecting a Computer to a Communications Network
- Downloading and Going Online
- Locating I/O Tags and Devices
- Interpreting Studio 5000 Logix
 Designer Project Organization and Execution
- Interpreting Ladder Logic Structure
- Locating and Editing Tag Values
- Interpreting Bit Instructions
- Interpreting Frequently Used Instructions
- Interpreting Arrays
- Interpreting Tags of User-Defined Data Types
- Searching for Project Components
- Integrated Practice Interpreting a Basic Project

- Forcing I/O and Toggling Bits
- Troubleshooting
 Digital I/O Problems
- Troubleshooting Analog I/O Problems

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- Troubleshooting Remote I/O Problems
- Updating Logix5000 Firmware
- Troubleshooting Controller Problems
- Troubleshooting Power Supply Problems
- Analyzing and Troubleshooting a System Using a Trend Chart
- Integrated Practice-Troubleshooting Basic Projects
- Editing Ladder Logic Online
- Managing Studio 5000 Logix Designer
 Project Files
- Documenting and Printing Components
- Troubleshooting Noise-Related Problems

PREREQUISITES

- Ability to perform basic Microsoft Windows tasks
- Previous experience with common industrial control system concepts

