OUR KNOWLEDGE IS YOUR POWER

AUTOMATION | ELECTRICAL INDUSTRIAL & SAFETY FLUID POWER

AUTOMATION

MON. JAN.23 -FRI. JAN. 27 MON: 12 PM - 5 PM TUE-FRI: 8 AM - 5 PM

SMC JOPLIN 923 W. 4TH ST. JOPLIN, MO 64801 CONTROLLOGIX® / STUDIO 5000 LOGIX DESIGNER® LEVEL 1: CONTROLLOGIX® FUNDAMENTALS & TROUBLESHOOTING

TRAINING EVENT

This course is designed for individuals who need to maintain and troubleshoot a ControlLogix system — but have no current working experience with ControlLogix systems. Upon completion of this course, you should be able to troubleshoot a previously operational ControlLogix® system and restore normal operation. All Logix5000[™] systems use the same control engine; therefore, tasks are similar. You will see applicable references for other systems.

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



To register, contact Suzan McPherson at smcpherson@smcelectric.com by

Monday, January 9, 2023.

REGISTER

+ HANDS-ON

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. COST \$3,226 Includes Lunch (Except Monday)

SMCELECTRIC.COM | 923 W. 4TH STREET, JOPLIN, MO 64801 | P. 417.624.5454 | F. 417.624.2708

COURSE NUMBER CCP299

This is a four-and-a-half-day course.

- Locating ControlLogix Components
- \cdot Navigating through the Studio 5000 Logix Designer Application
- · Connecting a Computer to a Communications Network
- · Downloading and Going Online
- \cdot Locating I/O Tags and Devices
- Interpreting Studio 5000 Logix Designer Project Organization and Execution
- Interpreting Ladder Logic Structure
- \cdot 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
- 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