SMC SM

OUR KNOWLEDGE IS YOUR POWER

AUTOMATION | ELECTRICAL
INDUSTRIAL & SAFETY
FLUID POWER

AUTOMATION

MON. DEC. 12 - FRI. DEC. 16

MON: Noon - 5 PM
TUE-FRI: 8 AM - 5 PM

SMC CAPE GIRARDEAU
2333 RUSMAR ST.
CAPE GIRARDEAU, MO

COURSE NUMBER CCP299

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

Authorized Service Provider
A ROCKWELL AUTOMATION PARTNER

+ 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)

REGISTER

To register, contact Tiffany Raines at traines@smcelectric.com by November 21, 2022.

COURSE NUMBER CCP299

- 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
- 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