



OUR KNOWLEDGE IS YOUR POWER

AUTOMATION | ELECTRICAL
DATA COMM & SECURITY
INDUSTRIAL & SAFETY
FLUID POWER

AUTOMATION

TUE. JUN. 15 -
FRI. JUN. 18

8 AM - 5 PM

SMC CAPE GIRARDEAU
2333 RUSMAR ST.
CAPE GIRARDEAU, MO

COURSE NUMBER CCP143
**CONTROLLOGIX® / STUDIO 5000
LOGIX DESIGNER® LEVEL 3:
PROJECT DEVELOPMENT**

TRAINING EVENT

This course is designed for individuals who need to develop 5000 Logix Designer® projects for any Logix5000 controller. Upon completion of the course, given a functional specification for a Logix5000™ application, you should be able to develop a project to meet the specification requirements.

This course covers tasks common to the following hardware, which all use the Logix5000 control engine:

- ControlLogix® controllers
- CompactLogix™ controllers
- SoftLogix™ controllers



**Authorized
Service Provider**

A ROCKWELL AUTOMATION PARTNER

This course will build upon your knowledge of common controller terms and operation and your experience with basic ladder logic programming. You will gain a deeper understanding of project development tasks that are common to all Logix5000 controllers. Such tasks include organizing tasks and routines, organizing controller data, configuring modules, and sharing data.

+ 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

\$2,550
Includes Lunch



REGISTER

To register, contact Erica Masterson at emasterson@smcelectric.com by May 25, 2021.

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Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. You will also use producer/consumer technology for multicasting to input and output devices, sharing data between controllers, and controlling remote I/O.

This course will award 2.8 CEUs.

Prerequisites

To successfully complete this course, the following prerequisites are required:

- Ability to perform basic Microsoft Windows tasks
- Knowledge of common controller terms and operation through experience or one of the following courses:
 - Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals (Course No. CCP146)
 - RSTrainer for ControlLogix Fundamentals computer-based training (9393-RSTCLX)
- Ability to write basic ladder logic with common instructions, such as bit, timer, counter, move, and comparison instructions through experience or this course:
 - Studio 5000 Logix Designer Level 2: Basic Ladder Logic Programming (Course No. CCP151)

SCHEDULE

- 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