



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

AUTOMATION

MON. SEPT. 26 -
FRI. SEPT. 30

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

SMC SPRINGFIELD
509 N. WASHINGTON
SPRINGFIELD, MO 65806

COURSE NUMBER CCP298

STUDIO 5000 LOGIX DESIGNER® LEVEL 1: COMPACTLOGIX FUNDAMENTALS & TROUBLESHOOTING

TRAINING EVENT

This course is designed for individuals who need to maintain and troubleshoot a **CompactLogix system** – but have little or no current working experience with CompactLogix systems. Upon completion of this course, you should be able to troubleshoot a previously operational CompactLogix™ system and restore normal operation.

In this course you will develop and practice these skills by:

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

REGISTER

To register, contact Tyler Perry at
tperry@smcelectric.com
by Thursday September 1, 2022.

COURSE NUMBER CCP298

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. Exercises focus on the skills introduced in each lesson and are performed on a CompactLogix workstation.

This course will award 3.2 CEUs.

Prerequisites

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

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

SCHEDULE

- Locating CompactLogix Systems Components
- Navigating through the Logix Designer Application
- Connecting a Computer to a Communications Network
- Downloading and Going Online
- Locating I/O Tags and Devices
- Interpreting 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 Banked Local I/O and Distributed 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 Logix Designer Project Files
- Documenting and Printing Components
- Troubleshooting Noise-Related Problems