



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

## AUTOMATION

MON. OCT. 21 -  
FRI. OCT. 25

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

\$2,850  
Includes Lunch

### REGISTER

To register, contact Brandy Meeker  
at [bmeeker@smcelectric.com](mailto:bmeeker@smcelectric.com)  
by Friday, September 20.

# COURSE NUMBER CCP298

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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. 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