



AUTOMATION

COURSE CCP151

ControlLogix/Studio 5000 Logix Designer Level 2: Basic Ladder Logic Programming

After completing this course, students should be able to program basic ladder logic instructions for Logix5000™ controllers. This is a skill-building course that provides you with the resources and hands-on practice required to complete this objective.

You will have an opportunity to use the Studio 5000 Logix Designer® application to perform basic software tasks to meet the requirements of a given functional specification. In addition, you will set up a sequencer to run equipment through a predefined procedure and separate production procedure from equipment control.

PREREQUISITES

To successfully complete this course, completion of the Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals course (CCP146 or equivalent experience is required.

**Thursday, October 8 -
Friday, October 9**

8 AM - 5 PM

**SMC Springfield
585 N Washington Ave
Springfield, MO 65806**

Cost: \$2,685

Includes Lunch

To register, please contact Tyler Perry at tperry@smcelectric.com

Course Agenda



DAY 1

- Starting a ladder diagram for a Studio 5000 Logix Designer project
- Testing a ladder diagram in a Studio 5000 Logix Designer project
- Programming timer instructions in a Studio 5000 Logix Designer project
- Programming compare instructions in a Studio 5000 Logix Designer project
- Programming move instructions in a Studio 5000 Logix Designer project
- Programming math instructions in a Studio 5000 Logix Designer project

DAY 2



- Programming counter instructions in a Studio 5000 Logix Designer project
- Handling expressions in a Studio 5000 Logix Designer project
- Documenting and searching Ladder Logic using the Studio 5000 Logic Designer application
- Programming a procedure in a Studio 5000 Logix Designer project
- Separating the procedure from equipment control in Studio 5000 Logix Designer Project
- Copying and filling and array in Studio 5000 Logix Designer project