

Rockwell Automation

Logix5000™ Controllers

Fundamentals of Logix5000™ Systems

CCP146

Course Purpose

This course is a skill-building opportunity for students who want to develop a solid fundamental knowledge of Logix5000 systems and terminology. Students will be introduced to Logix5000 system components and functionality and will have an opportunity to use RSLogix 5000™ software to perform basic system networking and configuration tasks. Fundamental programming topics such as ladder logic configuration and setup will be presented to give students the information necessary for creating a program in the classroom that meets a set of functional specifications.

Who Should Attend

Individuals who have little or no working experience with Logix5000 systems or other programmable controllers should attend this course. Knowledge obtained in this course will be needed to complete other courses in the Logix5000 curriculum, such as *Using Basic Ladder Logic Instructions in an RSLogix 5000 Project* (Course No. CCP151) and *Developing a Logix5000 Project Using RSLogix 5000 Software* (Course No. CCP143).

Prerequisites

To complete this course successfully, students must be able to perform basic Microsoft Windows® tasks, such as:

- Use a mouse
- Browse for files
- Open, close, size, and move windows

Course Agenda

Day 1

- Understanding Control Systems
- Identifying Logix5000 System Components
- Creating and Modifying an RSLogix 5000 Project
- Communicating with a Logix5000 Controller
- Configuring Local 1756-I/O Modules

Day 2

- Identifying Numbering Systems and Converting Numeric Values
- Creating Tags and Monitoring Data in an RSLogix 5000 Project
- Understanding Logix5000 Programming Languages and Instructions
- Entering Basic Instructions into RSLogix 5000 Ladder Logic Routines
- Integrated Practice: Creating and Verifying an RSLogix 5000 Project



Hands-On Practice

Hands-on practice is necessary for retaining new information and learning new skills. This course offers hands-on exercises to give students working knowledge of Logix5000 systems. Once students learn the basic components of the system, they will create a working program with RSLogix 5000 software. Specifically, students will download and upload projects, go online, navigate through RSLogix 5000 software, and create basic ladder logic routines.

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Student Materials

To enhance and facilitate students' learning experience, the following materials are provided to each student as part of the course package:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.
- *Logix5000 Systems Glossary*, which contains terms and definitions specific to Logix5000 systems. This easy-to-use reference tool will help users understand Logix5000 concepts and identify Logix5000 systems terminology.

Next Learning Level

Once students have mastered the fundamental skills covered in this course, they will have the knowledge and skills necessary to attend the next level of Logix5000 training. In particular, this course will benefit those students enrolling in the *Using Basic Ladder Logic Instructions in an RSLogix 5000 Project* course (Course No. CCP151).

Course Length

This is a two-day course.



Course Number

The course number is CCP146.

To Register

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at <http://www.rockwellautomation.com/services>