

PLC-5 Processors

PLC-5 and RSLogix 5 Programming



Course Number

CCP410

Course Purpose

This course introduces you to programming techniques and instructions that will assist you in successfully configuring and programming a 1785 PLC-5[®] system using RSLogix[™] 5 software.

Throughout the course, you will learn and practice programming instructions and techniques to create a functional ladder logic project within a PLC-5 system. Application-based exercises will provide hands-on practice in using the RSLogix 5 software to program a PLC-5 processor.

After completing this course, you will gain experience performing the following tasks:

- Creating a project in RSLogix 5 software and running it on a PLC-5 processor
- Writing bit level, timer, counter, element, and file level instructions in a ladder logic project
- Adding documentation to projects
- Configuring and printing project reports

COURSE AGENDA

DAY 1-4

- Identifying PLC-5 System Components and Configurations
- Getting Started with RSLogix 5 Software
- Establishing Communications Between a Computer and a PLC-5 Processor
- Configuring Channels for a PLC-5 Processor
- Identifying Addresses and Organizing the Data Table
- Drafting Ladder Logic
- Programming Bit Instructions
- Entering, Editing, and Verifying Ladder Logic
- Selecting and Programming Timer and Counter Instructions
- Controlling Program Flow
- Entering Documentation
- Searching Ladder Logic
- Converting Integer Values to and from Binary Coded Decimal (BCD) Values
- Selecting and Programming Mathematical Instructions
- Selecting and Programming Compare Instructions
- Selecting and Programming Data Manipulation Instructions
- Configuring and Previewing a Project Printout

WHO SHOULD ATTEND

Individuals who have to write ladder logic projects for 1785 PLC-5 processors should attend this course. This course addresses all of the PLC-5 processors, with the exception of the PLC-5/250 processor.

PREREQUISITES

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

- Experience with basic control and electrical principles
- Completion of *PLC-5/SLC 500 and RSLogix Fundamentals* (Course No. CCP122) or equivalent experience

STUDENT MATERIALS

To enhance and facilitate the students' learning experiences, the following materials are provided as part of the course package:

- Student Manual
 - Includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book
 - Provides learning activities and hands-on practice. Solutions are included after each exercise for immediate feedback

- RSLogix 5 and PLC-5 Procedures Guide
 - Provides all the steps required to complete common tasks using RSLogix5 and RSLinx® software, including the tasks in the exercises. By following the procedures in this job aid, you can immediately apply what is learned in the course to your own job.
- 1785 PLC-5 Programmable Controllers Quick Reference
 - Provides a wide-range of maintenance information about the PLC-5 processors

HANDS-ON PRACTICE

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson.

COURSE LENGTH

This is a four-day course.

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/training>

To be respectful of the environment, Rockwell Automation is transitioning some of its training courses to a paperless format. Students are asked to complete downloads and bring personal devices to these classes. A full list of digital/paperless courses is currently available through your local distributor.

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