# COURSE DESCRIPTION

## SLC™ 500 Processors

## COURSE AGENDA

- Identifying SLC 500 System Components
- Getting Started with RSLogix 500 Software
- Communicating with an SLC 500 Processor
- Creating a New Project
- Determining Addresses and Assigning Symbols
- Drafting Ladder Logic
- Selecting and Programming Bit Instructions
- Entering, Editing, and Verifying Ladder Logic
- Determining Program Flow and Creating Subroutines
- Selecting and Programming Timer Instructions
- Selecting and Programming Counter Instructions
- Entering and Searching for Documentation
- Organizing the Data Table
- Selecting and Programming Math Instructions
- Selecting and Programming Data Handling Instructions
- Selecting and Programming Comparison Instructions
- Testing a Project
- Configuring and Previewing a Project Report

# SLC™ 500 and RSLogix™ 500 Programming

## COURSE NUMBER: CCPS41

***Course Purpose***

This course provides students with the resources and hands-on practice required to efficiently program an SLC 500 processor to meet the requirements of a given specification, using RSLogix 500 software.

In this course, students will create a program, step-by-step, to meet the requirements of a given functional specification. As each section of the program is built, students will gain experience that can be applied to more advanced RSLogix 500 projects.

Each lesson in the course is devoted to a step in the programming sequence. An instructor will present each step and demonstrate the procedure required to complete it.

After each procedure has been demonstrated, students will be a given an opportunity to apply what they have learned by drafting ladder logic and testing the project using the SLC 500 workstation.

# COURSE DESCRIPTION

## SLC™ 500 Processors

***Who Should Attend***

Individuals who are responsible for programming SLC 500 applications using RSLogix 500 software should attend this course.

***Prerequisites***

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

- Experience maintaining electrically controlled systems
- Experience operating a personal computer within a Microsoft® Windows 95® or Windows NT® environment
- Completion of the *PLC-5/SLC 500 and RSLogix Fundamentals* (Course No. CCP122)

***Student Materials***

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

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.
- *RSLogix 500 and SLC 500 Procedures Guide*, which provides all the steps required to complete common RSLogix 500 software tasks, including the tasks in the exercises. By following the procedures in this job aid, students can immediately apply what is learned in the course to their own jobs.
- *SLC 500 Documentation Reference Guide*, which contains excerpts from several different technical publications. This guide contains the most frequently referenced information and is a quick and efficient on-the-job resource.

***Hands-On Practice***

Programming and problem-solving skills are sharpened through hands-on exercises using an SLC 500 processor linked to an interactive I/O simulator. Throughout the course, students create, draft, and program a real-world

***Hands-On Practice (cont.)***

RSLogix 500 project that controls a simulated, automated car wash. Students will be able to compare their work to an existing example.

***Next Learning Level***

Once students have mastered the programming skills covered in this course, they may wish to expand their application skills and knowledge by attending the *SLC 500 and RSLogix 500 Advanced Programming* course (Course No. CCPS42).

***Course Length***

This is a four-day course.

***Course Number***

The course number is CCPS41.

***IACET CEUs***

CEUs Awarded: 2.8

***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

**www.rockwellautomation.com**

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