

**Overview:**

This course (CCPS41-EL) builds upon your experience with basic ladder logic programming. In this course, you will learn how to program code using timer, counter, math, data handling, and comparison instructions. You will gain an understanding of project development tasks and be shown how to:

- Create a new project using RSLogix 500® software
- Create, assign, and edit addresses and symbols
- Program ladder logic
- Upload, download, and go online with a SLC™ 500 processor
- Edit and verify ladder logic
- Test an RSLogix 500 project

Since content is shared between this course and the SLC 500 and RSLogix 500 Maintenance and Troubleshooting (CCPS43-EL) course, we recommend that you take the course that best fits your job requirements.

**Objectives:**

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



**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 with basic control and electrical principles
- Working knowledge of programmable controllers or completion of the PLC-5/SLC 500 and RSLogix™ Fundamentals (Course No. CCP122) course

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