

# Logix5000™ Controllers

## RSLogix 5000 Level 3: Project Development Course Description

### COURSE AGENDA

#### Day 1

- *Optional Review: Locating ControlLogix System Components*
- *Optional Review: Operating RSLogix 5000 Software*
- Updating Logix5000 Firmware
- Creating and Organizing a New Project
- Creating a Periodic Task
- Organizing Data
- Creating a User-Defined Data Type

#### Day 2

- Entering, Editing, and Verifying Ladder Logic
- Communicating with a Local 1756-I/O Module
- Configuring a Controller to Produce and Consume Data
- Configuring Logix5000 Controllers to Share Data over EtherNet/IP
- Configuring Logix5000 Controllers to Share Data over ControlNet

#### Day 3

- Communicating with a Remote 1756-I/O Module
- Creating an Event Task
- Retrieving and Setting Controller Status Values with GSV/SSV Instructions
- Configuring a Message

#### Day 4

- Documenting and Searching
- Developing an Add-On Instruction in Ladder Diagram
- Managing Project Files
- Allocating Connections
- Integrated Practice - Developing an RSLogix 5000 Project



### COURSE NUMBER: CCP143

#### Course Purpose

Upon completion of this course, given a functional specification for an RSLogix 5000 application, you will be able to develop a project to meet the requirements of the specification.

This course covers tasks common the following controllers, which all use the Logix5000 control engine, or operating system:

- ControlLogix® controllers
- FlexLogix™ controllers
- CompactLogix™ controllers
- SoftLogix™ controllers
- DriveLogix™ controllers

This course builds upon your knowledge of common controller terms and operation and your experience with basic ladder logic programming.

This course presents a deeper understanding of project development tasks that are common to all Logix5000 controllers. Such tasks include organizing tasks and routines, organizing controller data, configuring modules, and sharing data.

### **Course Purpose (continued)**

When developing and testing your project, you will use several Logix5000 communications networks including serial, ControlNet™, and EtherNet/IP™.

You will also use Producer/Consumer technology to multicast input and output devices, share data between controllers, and control remote I/O.

### **Who Should Attend**

Individuals who need to develop RSLogix 5000 projects for any Logix5000 controller should attend this course.

### **Prerequisites**

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

- Ability to perform basic Microsoft® Windows® tasks
- Knowledge of common controller terms and operation through experience or one of the following courses:
  - *RSLogix Level 1: ControlLogix System Fundamentals* (Course No. CCP146)
  - *RSTrainer for ControlLogix Fundamentals* computer-based training (9393-RSTCLX)
- Ability to write basic ladder logic with common instructions, such as bit, timer, counter, move, and comparison instructions through experience or this course:
  - *RSLogix 5000 Level 2: Basic Ladder Logic Programming* (Course No. CCP151)

### **Hands-On Practice**

Throughout the course, you will have the opportunity to practice skills you have learned through a variety of hands-on exercises. You will also have the chance to combine and practice several key skills by completing an integrated practice.

### **Student Materials**

To enhance and facilitate your learning experience, the following materials are provided with the course package:

- *Student Manual*, which contains the topical outlines and exercises. You will use this manual to follow presentations, take notes, and complete the exercises.
- *RSLogix 5000 and Logix5000 Procedures Guide*, which provides all of the steps required to complete basic RSLogix 5000 software tasks that are common to all Logix5000 hardware platforms. By following the procedures in this job aid, you can immediately apply what is learned in the course to their own jobs.
- *Logix5000 Documentation Reference Guide*. This searchable, electronic resource contains relevant technical publications and is a quick and efficient on-the-job resource.

### **Next Learning Level**

This course is a prerequisite for the following courses:

- *RSLogix 5000 Level 4: Function Block Programming* (Course No. CCP152)
- *RSLogix 5000 Level 4: Motion Programming Using Ladder Logic* (Course No. CCN142)

### **Course Length**

This is a four-day course.

### **Course Number**

The course number is CCP143.

### **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](http://www.rockwellautomation.com)**

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