

# COURSE DESCRIPTION

## Logix5000™ Controllers

### COURSE AGENDA

#### *Day 1*

- Applying Ladder Logic Strategies and Techniques
- Documenting and Searching Ladder Logic
- Modifying Timer and Counter Instructions
- Integrated Practice: Modifying Basic Instructions
- Modifying Program Control Instructions

#### *Day 2*

- Modifying Compare Instructions
- Modifying Compute and Math Instructions
- Integrated Practice: Modifying Ladder Logic Instructions
- Modifying Move Instructions

## RSLogix™ 5000 Basic Ladder Logic Interpretation



**COURSE NUMBER: CCCL21**

#### *Course Purpose*

This course is a skill-building course that provides maintainers with a basic understanding of RSLogix 5000 ladder logic instructions and terminology. This course also provides the resources and hands-on practice required to efficiently modify basic ladder logic instructions for a Logix5000 controller. Students will have an opportunity to use RSLogix 5000 software to perform basic software tasks to meet the requirements of a given functional specification. In addition to using ladder logic instructions, students will be introduced to ladder logic techniques, established standards, and common rules for modifying ladder logic.

#### *Who Should Attend*

Maintainers who have little or no practical experience with controllers, who are responsible for modifying Logix5000 controllers using RSLogix 5000 software, and who need to learn how to interpret or maintain ladder logic for any application should attend this course.

LISTEN. THINK. SOLVE.™

**Rockwell  
Automation**

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## Logix5000™ Controllers

### **Prerequisites**

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

- Completion of *Fundamentals of Logix5000 Systems* course (Course No. CCP146) or the ability to go online, configure I/O modules, download, assign tags, verify a project, change operating modes on a controller, and enter or edit basic ladder logic instructions in RSLogix 5000 software
- Ability to perform basic Microsoft® Windows® tasks, such as using a mouse, browsing for files, opening, closing, sizing and moving windows

### **Student Materials**

To enhance and facilitate each student's learning experience, the following materials are provided 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 Controllers Procedures Guide*, which provides all of the steps required to complete common Logix5000 tasks. By following the procedures in this job aid, students can immediately apply what is learned in the course to their own job.
- *Logix5000 Controllers Programming Documentation Reference Guide*, which contains excerpts from several different technical publications. This guide contains the most frequently referenced programming information and is a quick and efficient on-the-job resource for programmers.

### **Hands-On Practice**

This course provides maintainers with separate hands-on exercises that target their specific job responsibilities. To gain real-world modifying experience, maintainers will modify an entire RSLogix 5000 project for a fictitious application. As students modify the project, they will be given opportunities to verify it using a hardware workstation. This experience can then be transferred to their own job responsibilities.

### **Next Learning Level**

Once students have mastered the basic ladder logic 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 programmers enrolling in the *Maintaining and Troubleshooting Logix5000 Applications* course (Course No. CCP153).

### **Course Length**

This is a two-day course.

### **Course Number**

The course number is CCCL21

### **IACET CEUs**

CEUs Awarded: 1.4



### **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>

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

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