

# Logix5000™ Controllers

## RSLogix™ 700 5000 Level 4: Structured Text / Sequential Function Chart Programming Course Description

### COURSE AGENDA

#### Day 1

- Programming Assignments, Expressions and Instructions in Structured Text within an RSLogix 5000 Project
- Programming Constructs and Comments in Structured Text within an RSLogix 5000 Project
- Designing a Sequential Function Chart

#### Day 2

- Programming a Sequential Function Chart in an RSLogix 5000 Project
- Testing a Sequential Function Chart in an RSLogix 5000 Project
- Storing and Resetting Sequential Function Chart Data in an RSLogix 5000 Project
- Resetting and Pausing a Sequential Function Chart in an RSLogix 5000 Project



### COURSE NUMBER: CCP154

#### *Course Purpose*

Building on your project development skills, such as creating tags and programming control code, this course provides the skills and knowledge to program using the structured text and sequential function chart programming languages.

You will learn how to select instructions, expressions and constructs and then enter these elements and more into a routine. You will have an opportunity to translate a functional specification in to a sequential function chart. Also, you will learn how to test sequential function chart logic using forces and step throughs.

The instructor will demonstrate the relevant procedures required to program with structured text and sequential function charts. You will be provided ample opportunities to create and test their own projects.

LISTEN. THINK. SOLVE.™

**Rockwell  
Automation**

# COURSE DESCRIPTION

## **Who Should Attend**

Individuals who are responsible for programming structured text and sequential function chart routines in 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
- Completion of the *RSLogix 5000 Level3: Project Development* course (Course No. CCP143)  
OR
- Completion of the *RSTrainer for RSLogix 5000 Software – Offline Programming* computer-based training course  
OR
- Experience with basic RSLogix 5000 projects (navigating the software, creating tags, creating routines, etc.)

## **Technology Requirements**

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

## **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 topical outlines and exercises. Students will use this manual to follow presentations, take notes, and work through 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 your own job.

## **Hands-On Practice**

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

## **Next Learning Level**

After mastering the skills covered in this course, students may be interested in attending other specialized courses, such as:

- *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 two-day course.

## **Course Number**

The course number is CCP154



## **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/training>

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

## **Power, Control and Information Solutions**

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