

ControlLogix®/Studio 5000™

Studio 5000™ Logix Designer Level 4: Structured Text / Sequential Function Chart Programming Course Description

COURSE AGENDA

Day 1

- Programming Assignments, Expressions and Instructions in Structured Text within a Logix Designer Project
- Programming Constructs and Comments in Structured Text within a Logix Designer Project
- Designing a Sequential Function Chart

Day 2

- Programming a Sequential Function Chart in a Logix Designer Project
- Testing a Sequential Function Chart in a Logix Designer Project
- Storing and Resetting Sequential Function Chart Data in a Logix Designer Project
- Resetting and Pausing a Sequential Function Chart in a Logix Designer 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 Logix Designer 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 *Studio 5000 Logix Designer Level 3: Project Development* course (Course No. CCP143)

OR

- Experience with basic Logix Designer 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*:
 - Contains the topical outlines and exercises
 - Used to follow presentations, take notes, and work through exercises
- *Studio 5000 Logix Designer and Logix5000 Procedures Guide*:
 - Provides the steps required to complete basic software tasks that are common to all Logix5000 hardware platforms

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:

- *Studio 5000 Logix Designer Level 4: Function Block Programming* (Course No. CCP152)
- *Studio 5000 Logix Designer 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>

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