

Accelerated Logix5000 Programmer Certificate Level 1

OEM: Rockwell Automation • Duration: 5 Days (40 hrs) • Code: CCP250

COURSE MODULES & TOPICS

Course Purpose

- ControlLogix® controllers
- CompactLogix™ controllers

Objectives

- Create a Studio 5000 Logix Designer project or Programmers
- Program an application
- Add advance functionality to an application (data arrays, add-on instructions, produce/consume data and messages)

Who Should Attend

- Are responsible for programming Logix5000 controllers using the Studio 5000 Logix Designer application
- Need to learn how to draft ladder logic for any application

Prerequisites

- Completion of at least one Rockwell Automation Logix5000 course in the last two years.
- Pursuing a Logix5000 Certificate for Programmers.

Student Materials

- Student Manual includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book provides learning activities and hands-on practice. Solutions are included after each exercise for immediate feedback.

Course Agenda

Day 1

- Understanding Control Systems
- Locating ControlLogix System Components
- Identifying and Connecting to Industrial Networks
- Creating a Studio 5000 Logix Designer Project

- Downloading, Uploading, and Going Online

Day 2

- Configuring Modules in a Studio 5000 Logix Designer Project
- Creating Tags and Monitoring Data
- Drafting Basic Ladder Logic
- Programming Bitwise Instructions
- Testing a Ladder Diagram

Day 3

- Programming Timer and Counter Instructions
- Programming Comparison, Math, and Move Instructions
- Integrated Practice: Programming a Basic Application in Studio 5000 Logix Designer Software
- Creating a User-Defined Data Type

Day 4

- Creating and Using Arrays
- Creating Add-On Instructions
- Searching Within and Managing Files
- Configuring a Logix5000 Controller to Produce and Consume Data

Day 5

- Configuring a Logix5000 Message
- Retrieving and Setting Controller Status Values
- Leveraging Studio 5000 Logix Designer Tools
- Identifying and Correcting Faults in a Logix5000 System

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