

Advanced Logix 5000 Programmer Certificate

OEM: Rockwell Automation • Duration: 4 Days (32 hrs) • Code: CCP251

COURSE MODULES & TOPICS

Course Purpose

- ControlLogix® controllers
- CompactLogix™ controllers

Objectives

- Programming advanced instructions
- Optimizing tags/parameters, program execution, and controller performance
- Utilizing Studio 5000 Logix Designer tools
- Managing controller information and security

Who Should Attend

- Are responsible for programming Logix 5000 controllers using the Studio 5000 Logix Designer application
- Have working experience with developing controller code
- Need to learn additional instructions, features, and functionality of Studio 5000 Logix Designer software

Prerequisites

- Completion of either of the following courses: Accelerated Logix 5000 Programmer Certificate Level 1 course (CCP250)
- Studio 5000 Logix Designer Level 3: Project Development course (CCP143)
- Pursuit of a Logix 5000 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

Next Level Learning

- Studio 5000 Logix Designer Level 4: Function Block Programming course (CCP152)

- Studio 5000 Logix Designer Level 4: Structured Text/Sequential Function Chart Programming course (CCP154)

Course Agenda

Day 1

- Managing Controller Memory and Add-On Profiles
- Leveraging Studio 5000 Logix Designer Tools
- Exporting, Importing, and Manipulating Tags • Managing I/O

Day 2

- Managing and Configuring I/O Alarms
- Programming Masked Moves
- Programming Array Arithmetic and Organization Instructions

Day 3

- Programming Bit and Array Shift Instructions
- Optimizing Studio 5000 Logix Designer Organization and Execution
- Programming Sequencer Instructions

Day 4

- Programming Advanced Messaging
- Managing Controller and Network Performance in a Studio 5000 Logix Designer Project
- Managing and Monitoring Controller Status and Information in a Studio 5000 Logix Designer Project

Additional Optional Topics

- Configuring an Integrated Architecture System Using Integrated Architecture Builder Software
- Designing a ControlLogix System Using Studio 5000 Architect Software

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