

Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CCP146

COURSE MODULES & TOPICS

Objectives

- Understand Control Systems
- Locate ControlLogix System Components
- Locate and Configure Studio 5000 Logix Designer Application components
- Create and Modify a Studio 5000 Logix Designer Project
- Select and Connect to Industrial Networks in a Logix5000 System
- Download and Go Online to a Logix5000 Controller
- Locate I/O Tags and Devices in a ControlLogix System
- Configure Local 1756-I/O Modules in a Studio 5000 Logix Designer Project
- Create Tags and Monitoring Data in a Studio 5000 Logix Designer Project
- Draft Basic Ladder Logic for a Studio 5000 Logix Designer Routine
- Select Basic Ladder Logic Instructions for a Studio 5000 Logix Designer Routine
- Enter Ladder Logic Components in a Studio 5000 Logix Designer Routine
- Integrated Practice - Create and Verify a Studio 5000 Logix Designer Project

Prerequisites

- Use a mouse
- Browse for files
- Open, close, size and move windows

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
- 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

Next Level Learning

- Studio 5000 Logix Designer Level 2: Maintenance and Troubleshooting course (CCP153)
- Studio 5000 Logix Designer Level 3: Basic Ladder Logic Interpretation course (CCCL21)

- GuardLogix Application Development and Troubleshooting course (SAF-LOG104)
- Studio 5000 Logix Designer Level 2: Basic Ladder Logic Programming course (CCP151)
- Studio 5000 Logix Designer Level 3: Project Development course (CCP143)

Course Agenda

Day 1

- Understanding Control Systems
- Locating ControlLogix System Components
- Locating and Configuring Studio 5000 Logix Designer Application components
- Creating and Modifying a Studio 5000 Logix Designer Project
- Selecting and Connecting to Industrial Networks in a Logix5000 System
- Downloading and Going Online to a Logix5000 Controller

Day 2

- Locating I/O Tags and Devices in a ControlLogix System
- Configuring Local 1756-I/O Modules in a Studio 5000 Logix Designer Project
- Creating Tags and Monitoring Data in a Studio 5000 Logix Designer Project
- Drafting Basic Ladder Logic for a Studio 5000 Logix Designer Routine
- Selecting Basic Ladder Logic Instructions for a Studio 5000 Logix Designer Routine
- Entering Ladder Logic Components in a Studio 5000 Logix Designer Routine
- Integrated Practice - Creating and Verifying a Studio 5000 Logix Designer Project