

Accelerated Logix5000 Maintainer Certificate Level 1

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Course Number: CCP300

Type: Instructor-led

Technology: ControlLogix Studio
5000 Logix Designer Courses

Category: Maintain Troubleshoot

Course Purpose

This accelerated course is for individuals who can quickly learn and apply Logix5000™ concepts, terminology, hardware troubleshooting skills, and interpretation of ladder logic in a Studio 5000 Logix Designer® project. This course prepares you for the Logix5000 Maintainer Certificate Course Level

Duration: 5 days

INSTRUCTOR-LED COURSE CATALOG

1 certificate exam, which is included in the course price. You will have the opportunity to develop and practice these skills by:

- Learning basic concepts and terminology used with:
 - Logix5000 system hardware
 - The Studio 5000 Logix Designer application
 - RSLinx® Classic software
- Practicing a strategy for diagnosing and troubleshooting problems:
 - Configuration issues with controllers, I/O, or other hardware
 - Electrical noise
 - Faulty/malfunctioning field devices
 - EtherNet/IP™ network issues

Upon completion of this course, you should be able to troubleshoot a previously operational Logix5000 system and restore normal operation.

Objectives

After completing this course, students should be able to perform the following tasks:

- Understanding Control Systems
- Locating Logix5000 System Components
- Connecting a Computer to a Communication Network
- Assigning IP Addresses for an EtherNet/IP Network using RSLinx Classic Software and Rotary Switches
- Navigating Through the Studio 5000 Logix Designer Application
- Downloading, Uploading, and Going Online
- Locating I/O Tags and Devices
- Interpreting, Monitoring, and Editing Tag Values
- Isolating Problems in a Logix5000 System

- Troubleshooting Electrical, Digital I/O Module, Analog I/O Module, Logix5000 System EtherNet/IP Network and Distributed I/O Module Problems
- Interpreting Simple Ladder Logic Structure
- Documenting and Searching Ladder Logic

Who Should Attend

This course is intended for individuals who need to maintain and troubleshoot a Logix5000 system and have current working experience with Logix5000 systems.

Curriculum Note: This course contains many of the lessons in courses [CCP153](#), [CCP299](#), and [CCCL21](#) – in an accelerated five-day format. Do not take all three courses.

Prerequisites

To successfully complete this course, the following prerequisites are required:

- Experience reading wiring diagrams
- Completion of at least one Rockwell Automation Logix5000 course in the last two years
- Pursuing a Logix5000 Certificate for Maintainers

Student Materials

To enhance and facilitate the students' learning experiences, the following materials are provided as part of the course package:

- Student Manual – Includes the key concepts, definitions, examples, and activities

Course Agenda

Day 1

- Understanding Control Systems • Locating Logix5000 System Components
- Connecting a Computer to a Communication Network
- Assigning IP Addresses for an EtherNet/IP Network using RSLinx Classic Software and Rotary Switches
- Navigating Through the Studio 5000 LogixDesigner Application

Day 2

- Downloading, Uploading, and Going Online
- Locating I/O Tags and Devices
- Interpreting, Monitoring, and Editing Tag Values
- Isolating Problems in a Logix5000 System
- Troubleshooting Electrical Problems
- Troubleshooting Digital I/O Module Problems

Day 3

- Troubleshooting Analog I/O Module Problems
- Troubleshooting Logix5000 System EtherNet/IP Network Problems

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 common to all Logix5000 controllers. By following the procedures in this job aid, you can immediately apply what you learn to your own work.

Hands-on Practice

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises using a [ControlLogix with 5069 Compact I/O](#) workstation (ABT-TDCLX4). These exercises focus on the skills introduced in each lesson.

Certificate Assessment

Access to the certificate assessment is valid for 90 days from end of class and will be provided by email.

- Troubleshooting Distributed I/O Module Problems
- Integrated Practice – Troubleshooting Logix5000 Hardware and EtherNet/IP Network Problems
- Interpreting Simple Ladder Logic Structure
- Documenting and Searching Ladder Logic

Day 4

- Forcing I/O and Toggling Bits
- Editing Ladder Logic Online
- Interpreting Timer and Counter Instructions
- Interpreting Math, Comparison, and Move Instructions
- Interpreting Copy and File Fill Instructions

Day 5

- Interpreting Program Control Instructions
- Analyzing and Troubleshooting a System Using a Trend Chart
- Troubleshooting Logix5000 Controller Problems
- Updating Logix5000 Firmware
- Managing Studio 5000 Logix Designer Project Files

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