

Studio 5000 Logix Designer Level 2: Basic Ladder Logic Programming

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CCP151

COURSE MODULES & TOPICS

Objectives

- Start and test a ladder diagram
- Program timer and counter instructions
- Program compare, move, and math instructions
- Document and search and handle expressions
- Program and separate the procedure from equipment control
- Copy and fill an array

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 3: Project Development course (CCP143)
- DeviceNet and RSNetWorx Configuration and Troubleshooting course (CCP164)
- ControlNet and RSNetWorx Configuration and Troubleshooting course (CCP173)

Course Agenda

Day 1

- Starting a Ladder Diagram for a Studio 5000 Logix Designer Project
- Testing a Ladder Diagram in a Studio 5000 Logix Designer Project
- Programming Timer Instructions in a Studio 5000 Logix Designer Project
- Programming Compare Instructions in a Studio 5000 Logix Designer Project
- Programming Move Instructions in a Studio 5000 Logix Designer Project
- Programming Math Instructions in a Studio 5000 Logix Designer Project

Day 2

- Programming Counter Instructions in a Studio 5000 Logix Designer Project
- Handling Expressions in a Studio 5000 Logix Designer Project
- Documenting and Searching Ladder Logic Using the Studio 5000 Logix Designer Application
- Programming a Procedure in a Studio 5000 Logix Designer Project
- Separating the Procedure from Equipment Control in Studio 5000 Logix Designer Project
- Copying and Filling an Array in a Studio 5000 Logix Designer Project