

Kinetix 5700 Troubleshooting and Project Interpretation

OEM: Rockwell Automation • Duration: 3 Days (24 hrs) • Code: CCN202

COURSE MODULES & TOPICS

Objectives

- Locate Kinetix 5700 system components
- Retrieving System Status Information using Kinetix 5700 Servo Drive Hardware
- Retrieving System Status Information using a Studio 5000 Logix Designer project
- Troubleshooting Failed Communications for a Kinetix 5700 Servo Drive System
- Testing Wiring and Signals for a Kinetix 5700 Servo Drive System
- Trending Status Information for a Kinetix 5700 Servo Drive System using a Studio 5000 Logix Designer project
- Accessing a Kinetix 5700 Servo Drive Web Page
- Interpreting Motion State and Motion Move Instructions in a Studio 5000 Logix Designer project
- Troubleshooting Integrated Motion Application Code using a Studio 5000 Logix Designer project
- Removing and Replacing a Kinetix 5700 Servo Drive

Prerequisites

- Completion of the Motion Control Fundamentals course (CCN130) or equivalent knowledge of or experience with servo drives, feedback devices, and velocity and position-loop systems
- Completion of the Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals course (CCP146) or equivalent knowledge of or experience with the Logix5000™ platform and basic ladder logic

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 common motion-related tasks within a Logix Designer project, as well as basic project organization tasks

Next Level Learning

- Studio 5000 Logix Designer Level 4: Kinetix 5700 (CIP) Programming course (CCN144-A)
- Studio 5000 Logix Designer Level 2: ControlLogix Maintenance and Troubleshooting course (CCP153)

Course Agenda

Day 1

- Identifying the Physical Components of a Kinetix 5700 Servo Drive System
- Retrieving System Status Information using Kinetix 5700 Servo Drive Hardware
- Retrieving System Status Information using a Studio 5000 Logix Designer Project
- Integrated Practice: Diagnosing a Kinetix 5700 Servo Drive System

Day 2

- Troubleshooting Failed Communications for a Kinetix 5700 Servo Drive System
- Testing Wiring and Signals for a Kinetix 5700 Servo Drive System
- Trending Status Information for a Kinetix 5700 Servo Drive System using a Studio 5000 Logix Designer Project
- Accessing a Kinetix 5700 Servo Drive Web Page
- Interpreting Motion State and Motion Move Instructions in a Studio 5000 Logix Designer Project

Day 3

- Troubleshooting Integrated Motion Application Code using a Studio 5000 Logix Designer Project
- Integrated Practice: Troubleshooting Integrated Motion Application Systems using Kinetix 5700 Servo Drives
- Removing and Replacing a Kinetix 5700 Servo Drive

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