

Kinetix 6500 Troubleshooting and Project Interpretation

OEM: Rockwell Automation • Duration: 3 Days (24 hrs) • Code: CCN201

COURSE MODULES & TOPICS

Objectives

- Identify the physical components and wiring of a Kinetix 6500 servo drive
- Interpret Kinetix 6500 servo drive status indicators
- Using the Studio 5000 Logix Designer application: Determine the status of a drive and its associated axis
- Test wiring and signals for a Kinetix 6500 servo drive axis
- Trend status information for a Kinetix 6500 servo drive axis
- Tune a Kinetix 6500 servo drive axis
- In a Studio 5000 Logix Designer project: Verify a Kinetix 6500 servo drive and drive axis configuration
- Interpret motion state instructions for a Kinetix 6500 servo drive axis
- Interpret motion move instructions for a Kinetix 6500 servo drive axis
- Troubleshoot ladder logic for a Kinetix 6500 servo drive axis
- Troubleshoot failed communications for a Kinetix 6500 servo drive control module
- Access a Kinetix 6500 servo drive web page
- Remove and replace a Kinetix 6500 servo drive

Prerequisites

- Completion of the Motion Control Fundamentals course (CCN130) or equivalent knowledge of or experience with 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 ControlLogix® 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 Motion Control Procedures Guide provides the procedures for performing motion control tasks in a Logix5000™ system using Logix Designer and RSLinx® Classic software

Next Level Learning

- Studio 5000 Logix Designer Level 4: Kinetix 6500 (CIP) Programming course (CCN144)
- Studio 5000 Logix Designer Level 2: ControlLogix Maintenance and Troubleshooting course (CCP153)

Course Agenda

Day 1

- Identifying the Physical Components and Wiring of a Kinetix 6500 Servo Drive
- Interpreting Kinetix 6500 Servo Drive Status Indicators
- Determining the Status of a Drive and its Associated Axis Using the Studio 5000 Logix Designer Application
- Verifying a Kinetix 6500 Servo Drive Configuration in a Studio 5000 Logix Designer Project
- Verifying a Kinetix 6500 Servo Drive Axis Configuration in a Studio 5000 Logix Designer Project

Day 2

- Troubleshooting Failed Communication for a Kinetix 6500 Servo Drive Control Module
- Testing Wiring and Signals for a Kinetix 6500 Servo Drive Axis Using the Studio 5000 Logix Designer Application
- Trending Status Information for a Kinetix 6500 Servo Drive Axis Using the Studio 5000 Logix Designer Application
- Tuning a Kinetix 6500 Servo Drive Axis Using the Studio 5000 Logix Designer Application

Day 3

- Interpreting Motion State Instructions for a Kinetix 6500 Servo Drive Axis in a Studio 5000 Logix Designer Project
- Interpreting Motion Move Instructions for a Kinetix 6500 Servo Drive Axis in a Studio 5000 Logix Designer Project
- Troubleshooting Ladder Logic for a Kinetix 6500 Servo Drive Axis in a Studio 5000 Logix Designer Project
- Accessing a Kinetix 6500 Servo Drive Web Page
- Removing and Replacing a Kinetix 6500 Servo Drive

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