COURSE CCN132

Motion Control Fundamentals using Kinetix 5700 (CIP) Servo Drives

Upon completion of this course, you should be able to demonstrate fundamental motion control concepts common to all Rockwell Automation motion control systems.

This course is designed to provide you with an understanding of the concepts, terminology, functionality and applications of motion control. This course will also allow you to establish the foundation you need before learning the skills necessary to maintain and program motion control systems.

This course does not address motion control system design or specific motion control software programming. If you are seeking training in these areas, you should enroll in the relevant Rockwell Automation training courses, making sure you have fulfilled the prerequisites for those courses prior to enrollment.

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson.

You will use a Kinetix® 5700 workstation (Catalog Number ABT-TDK5700) containing real and simulated devices to practice the tasks involved in working with a motion control application.

Tuesday, October 8 - Thursday, October 10

8 AM - 5 PM

SMC Sedalia
1616 W Main St
Sedalia, MO 65301

Cost: $2,583
Includes Lunch

RA
Authorized
Service Provider
A ROCKWELL AUTOMATION PARTNER

For more information, please contact Ashli Anderson at aanderson@smcelectric.com
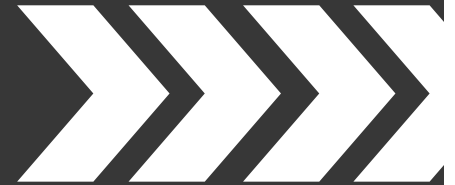
Course Agenda

DAY 1

- Identifying a Motion Control System
- Tracing the Power Supply to the Servo Drive
- Identifying Servo Drive Problems
- Identifying Motor Types and Components

DAY 2

- Identifying Motor Feedback Devices
- Identifying and Scaling Loads
- Tracing Signal Flow Through the Servo Drive
- Creating a Motion Profile

DAY 3

- Identifying and Applying a Reference to a Servo Drive
- Identifying the Elements of an Integrated Motion Application Using Logix 5000 Controllers
- Identifying Motion Modules and Axis Tags Using Studio 5000 Logix Designer Software

PREREQUISITES

- A background in basic electricity, electronics, and computer concepts
- One of the following courses:
  - Studio 5000 Logix Designer Level 1: ControlLogix Fundamentals and Troubleshooting (Course Number CCP299)
  - Studio 5000 Logix Designer Level 1: CompactLogix Fundamentals and Troubleshooting (Course Number CCP298)

To register, please contact Ashli Anderson at aanderson@smcelectric.com

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