

Motion Control Fundamentals Using Kinetix 5700 (CIP) Servo Drives

Description

This course (CCN132) provides the ability 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.

Objectives

- Identifying a Motion Control System
- Tracing the Power Supply to the Servo Drive
- Identifying Servo Drive Hardware and Problems
- Identifying Motor Types and Components
- Identifying Motor Feedback Devices
- Identifying and Scaling Loads
- Tracing Signal Flow Through the Servo Drive
- Creating a Motion Profile
- Identifying and Applying a Reference to a Servo Drive
- Identifying the Elements of an Integrated Motion Control System using Logix 5000 Controllers
- Identifying Motion Modules and Axis Tags using Studio 5000 Logix Designer Software

Prerequisites

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

- 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)

Who Should Attend

This course is intended for individuals who need to learn basic motion control concepts for their job or as a prerequisite for attending other motion control courses.