

Studio 5000 Logix Designer Level 5: Advanced Motion Programming

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CCN190-LD

COURSE MODULES & TOPICS

Objectives

- Tune a servo axis with motion analyzer software
- Program event driven tasks
- Program output cam instructions
- Calculate a cam profile
- Program coordinate and motion add-on instructions
- Develop a motion control project using the power programming state model
- Program coordinated move transform instructions in a pick and place application

Prerequisites

- Ability to perform basic Microsoft Windows tasks
- Completion of the Studio 5000 Logix Designer Level 3: Project Development course (CCP143) or equivalent knowledge of or experience with basic ladder logic programming
- Completion of the Studio 5000 Logix Designer Level 4: Kinetix 6000 (SERCOS) Programming course (CCN145) or equivalent experience

Student Materials

- Student Manual contains the topical outlines and exercises. You will use this manual to follow presentations, take notes, and work through the exercises.

Course Agenda

Day 1

- Tuning a Servo Axis with Motion Analyzer Software
- Programming Event Driven Tasks
- Programming Output Cam Instructions
- Calculating a Cam Profile

Day 2

- Programming Coordinate Instructions
- Programming Motion Add-On Instructions
- Developing a Motion Control Project Using the Power Programming State Model

- Programming Coordinated Move Transform Instructions in a Pick and Place Application