

PowerFlex 700 Vector Control Communications over EtherNet/IP

OEM: Rockwell Automation • Duration: 1 Day (8 hrs) • Code: CCA165

COURSE MODULES & TOPICS

Course Purpose

- Logix5000™ controllers
- PanelView™ Plus terminals running FactoryTalk® View ME software
- The A3 LCD HIM
- The Studio 5000 Logix Designer® application
- Drive configuration software (DriveExecutive™, Connected Components Workbench™)

Objectives

- Add a PowerFlex 700 vector control drive to a Studio 5000 Logix Designer project
- Import PowerFlex 700 vector control drive control code into a Studio 5000 Logix Designer project
- Create new PowerFlex 700 vector control drive control code in a Studio 5000 Logix Designer project
- Synchronize data and test PowerFlex 700 vector control drive operating modes
- Configure PowerFlex 700 vector control drive peer-to-peer communications

Prerequisites

- Working knowledge of electricity, and knowledge of electrical and industrial safety (including PPE requirements and safe practices)
- Completion of the PowerFlex 700 Vector Control Configuration and Startup course (CCA161) or equivalent experience
- Knowledge of Logix5000 system fundamentals and basic programming skills through one of the following methods: Completion of the Studio 5000 Logix Designer Level 2: Basic Ladder Logic Programming course (CCP151)
- Completion of available RSLogix 5000®/Studio 5000® software
- Equivalent on-the-job experience

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 basic Logix Designer application tasks that are common to all Logix5000 hardware platforms.

Course Agenda

- Adding a PowerFlex 700 Vector Control Drive to a Studio 5000 Logix Designer Project
- Importing PowerFlex 700 Vector Control Drive Control Code into a Studio 5000 Logix Designer Project
- Creating New PowerFlex 700 Vector Control Drive Control Code in a Studio 5000 Logix Designer Project
- Synchronizing Data and Testing PowerFlex 700 Vector Control Drive Operating Modes
- Configuring PowerFlex 700 Vector Control Drive Peer-to-Peer Communications
- Integrated Practice – Adding PowerFlex 700 Vector Control Drives and Drive Code to a Studio 5000 Logix Designer Project