

PowerFlex 700 Vector Control Maintenance and Troubleshooting

OEM: Rockwell Automation • Duration: 1 Day (8 hrs) • Code: CCA163

COURSE MODULES & TOPICS

Objectives

- Replace and rewire drive hardware
- Configure drive parameters using LCD HIM, DriveExplorer, and DriveExecutive software
- Upload and download drive data
- Troubleshoot and clear drive alarms
- Clear drive faults
- Troubleshoot drive load and environmental faults
- Troubleshoot drive equipment malfunctions

Prerequisites

- Working knowledge of electricity, and knowledge of electrical and industrial safety (including PPE requirements and safe practices)
- Ability to perform basic Microsoft Windows tasks
- Completion of the AC/DC Motors and Drives Fundamentals course (CCA101) or equivalent experience

Student Materials

- Student Manual contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises
- PowerFlex 700 Standard and Vector Control Troubleshooting Guide contains flowcharts that help the user find the root of the drive problem and choose the correct solution
- PowerFlex 700 Standard and Vector Control Procedures Guide provides the steps required to clear drive faults and alarms. This guide also contains a very helpful glossary of common terms
- PowerFlex 700 Standard and Vector Control Quick Reference Guide provides lists of parameters in both alphabetic and numeric order.

Course Agenda

- Replacing and Rewiring Drive Hardware
- Configuring Drive Parameters Using the LCD HIM
- Configuring Drive Parameters Using Drive Explorer Software
- Configuring Drive Parameters Using Drive Executive Software
- Uploading and Downloading Drive Data
- Troubleshooting and Clearing Drive Alarms

- Clearing Drive Faults
- Troubleshooting Drive Load and Environmental Faults
- Troubleshooting Drive Equipment Malfunctions
- Integrated Practice: Maintaining and Troubleshooting a PowerFlex 700 Vector Control Drive