COURSE DESCRIPTION

PowerFlex® 700 Vector Control Drives

PowerFlex® 700 Vector Control Maintenance and Troubleshooting

COURSE AGENDA

- Replacing and Rewiring Drive Hardware
- 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

COURSE NUMBER: CCA163

Course Purpose

This skill-building course introduces concepts and techniques that will assist you in successfully maintaining and troubleshooting a PowerFlex 700 vector control drive. You will learn how to recognize PowerFlex 700 drive hardware and properly wire the drive. You will also learn to diagnose specific load-related, environmental, and equipment faults. Throughout the course, you will use the LCD HIM, DriveExplorer™ software, and DriveExecutive™ software to clear faults and alarms. After each demonstration, you will be given an application-based exercise that offers extensive hands-on practice using the PowerFlex 700 drive.

This one-day course can be taken as a stand-alone course, or it can be taken in conjunction with other courses in the PowerFlex 700 curriculum for further skill development.

COURSE DESCRIPTION

PowerFlex® 700 Vector Control Drives

Who Should Attend

Individuals responsible for maintaining and troubleshooting PowerFlex 700 vector control drives should take this course.

Prerequisites

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

- Experience operating a personal computer within a Microsoft® Windows® environment
- Completion of the *AC/ DC Motors and Drives Fundamentals* course (Course No. CCA101) or *RSTrainer for Fundamentals of AC and DC Motors and Drives* (Part No. 9393-RSTACD)

Student Materials

To enhance and facilitate each student's learning experience, the following materials are provided as part of the course package:

- *Student Manual*, which 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*, which contains flowcharts that help the user find the root of the drive problem and choose the correct solution.
- *PowerFlex 700 Standard and Vector Control Documentation Reference Guide*, which contains information from several PowerFlex™ technical publications including the *PowerFlex 700 Adjustable Frequency AC Drive User Manual*. This guide contains the most frequently referenced information and is a quick and efficient on-the-job resource.
- *PowerFlex 700 Standard and Vector Control Procedures Guide*, which 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*, which provides lists of parameters in both alphabetic and numeric order

Hands-On Practice

Hands-on practice is an integral part of learning, and this course offers extensive hands-on opportunities. An in-class workstation allows students to replace PowerFlex 700 control drive components and troubleshoot faults and alarms. The PowerFlex 700 drive workstation introduces real-world maintaining and troubleshooting situations into a classroom setting.

Course Length

This is a one-day course.

Course Number

The course number is CCA163

IACET CEUs

CEUs Awarded: .7

To Register

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at http://www.rockwellautomation.com/training

www.rockwellautomation.com

Power, Control and Information Solutions

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