Drives
PowerFlex 70 Maintenance and Troubleshooting Course Description

COURSE AGENDA

- Replacing and Rewiring Drive Hardware
- Configuring Drive Parameters Using the LCD HIM
- Configuring Drive Parameters Using DriveExplorer Software
- Configuring Drive Parameters Using DriveExecutive 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 70 Drive

COURSE NUMBER: CCA159-LD

Course Purpose

This skill-building course introduces concepts and techniques that will assist you in successfully maintaining and troubleshooting a PowerFlex 70 AC drive. You will learn how to recognize PowerFlex 70 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 a PowerFlex 70 drive.

LISTEN.
THINK.
SOLVE.®

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Who Should Attend

Individuals responsible for maintaining and troubleshooting PowerFlex 70 drives should take this course.

Prerequisites

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

- 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 (Course No. CCA101) or *Fundamentals of AC and DC Motors and Drives* Web-based training (ePass/WBT1PACK) or equivalent experience

Technology Requirements

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

Student Materials

To enhance and facilitate each student's learning experience, the following materials are provided:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.

- *PowerFlex 70 Enhanced Control Documentation Reference Guide*, which contains information from several PowerFlex™ technical publications including the *PowerFlex 70 Adjustable Frequency AC Drive User Manual*.

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 work with PowerFlex 70 drive components and troubleshoot faults and alarms. The PowerFlex 70 drive workstation introduces real-world maintaining and troubleshooting situations into a classroom setting.

Next Learning Level

Once you have mastered the skills covered in this course, you can attend other Rockwell Automation PowerFlex family (including 700 and 750-Series drives) training courses. One example of such a course is the *PowerFlex 700 Vector Control Configuration and Startup* course (CCA161).

Course Length

This is a one-day course.

Course Number

The course number is CCA159-LD

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