

# Drives

## PowerFlex® 750-Series Maintenance and Troubleshooting Course Description

### COURSE AGENDA

#### Day 1

- Locating PowerFlex 750-Series Drive Hardware
- Locating and Modifying PowerFlex 750-Series Drive Data Using the A6 HIM
- Locating and Modifying PowerFlex 750-Series Drive Data Using Drive Software
- Clearing PowerFlex 750-Series Drive Alarms and Faults

#### Day 2

- Performing Predictive Maintenance Using PowerFlex 750-Series Parameters
- Troubleshooting PowerFlex 750-Series Load and Environmental Faults
- Troubleshooting PowerFlex 750-Series Equipment Malfunctions
- Integrated Practice: Maintaining and Troubleshooting a PowerFlex 750-Series Drive



### COURSE NUMBER: CCA183

#### Course Purpose

This skill-building course introduces concepts and techniques that will assist you in successfully maintaining and troubleshooting a PowerFlex 750-Series (PowerFlex 753 or PowerFlex 755) drive. You will learn how to recognize PowerFlex 750-Series drive hardware and properly wire the drive. You will also learn to diagnose specific faults.

Throughout the course, you will have the chance to use a variety of maintenance and troubleshooting tools, including:

- The A6 LCD HIM
- Connected Components Workbench™ software
- DriveExecutive™ software

After each demonstration, you will be given exercises that offer extensive hands-on practice using a PowerFlex 753 or PowerFlex 755 drive.

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

### **Who Should Attend**

Individuals responsible for maintaining and troubleshooting PowerFlex 750-Series 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 as part of the course package:

- *Student Manual:*
  - Contains the topical outlines and exercises
  - Used to follow presentations, take notes, and work through exercises
- *PowerFlex 750-Series AC Drives Documentation Reference Guide:*
  - Searchable, electronic resource
  - Contains frequently referenced technical documentation
- *PowerFlex 750-Series AC Drives Programming Manual:*
  - Source of drive parameters and other key data

- Contains frequently referenced programming documentation

### **Student Materials (cont.)**

- *PowerFlex 750-Series AC Drives Installation Instructions:*
  - Provides steps for installing and wiring drives
  - Contains frequently referenced installation data

### **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 750-Series drive components and troubleshoot faults and alarms. The PowerFlex 750-Series drive workstation introduces real-world maintaining and troubleshooting situations into a classroom setting.

### **Course Length**

This is a two-day course.

### **Course Number**

The course number is CCA183.



### **IACET CEUs**

CEUs Awarded: 1.4

### **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>

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