

# Drives

## PowerFlex 700 Vector Control Configuration and Startup



## Course Number

CCA161

## Course Purpose

This skill-building course introduces techniques and instructions that will assist you in successfully configuring and starting up a PowerFlex® 700 vector control drive.

Throughout the course, the instructor will demonstrate how to configure PowerFlex 700 drive parameters. The instructor will also demonstrate how to install and commission one or more of the following communications adapters:

- ControlNet
- DeviceNet
- EtherNet/IP
- Remote I/O

After each demonstration, you will be given an application-based exercise that offers extensive hands-on practice using the LCD HIM, DriveExplorer™ software, and DriveExecutive™ software.

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 AGENDA

### DAY 1

- Configuring Drive Parameters Using the LCD HIM
- Configuring Drive Parameters Using DriveExplorer Software
- Configuring Drive Parameters Using DriveExecutive Software
- Uploading and Downloading Drive Data
- Starting Up a Drive
- Controlling Drive Operation
- Installing and Configuring an EtherNet/IP Communications Adapter
- Optional: Installing and Configuring a Remote I/O Communications Adapter
- Optional: Installing and Configuring a DeviceNet Communications Adapter
- Optional: Installing and Configuring a ControlNet Communication Adapter

## WHO SHOULD ATTEND

Individuals responsible for configuring parameters and starting up PowerFlex 700 vector control drives should attend 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 equivalent experience

## STUDENT MATERIALS

To enhance and facilitate the students' learning experiences, 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 Procedures Guide*, which provides all the steps required to complete common PowerFlex 700 tasks, including the tasks in the hands-on exercises. By following the procedures in this job aid, you can immediately apply what is learned in the course to your own job.
- *PowerFlex Standard and Vector Control Quick Reference Guide*, which provides lists of parameters in both

alphabetic and numeric order, as well as other information to assist with locating, monitoring, and modifying PowerFlex 700 drive parameters.

## 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 configure parameters, install communications adapters, and start up the drive. Students will perform the tasks using a PowerFlex 700 AC drive workstation and a fan demo. The fan application introduces real-world configuring situations into a classroom setting.

## COURSE LENGTH





This is a one-day course.

### 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>

To be respectful of the environment, Rockwell Automation is transitioning some of its training courses to a paperless format. Students are asked to complete downloads and bring personal devices to these classes. A full list of digital/paperless courses is currently available through your local distributor.

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