

# PowerFlex® 700 Vector Control Drives

## PowerFlex® 700 Vector Control Communications on DeviceNet™ Course Description

### COURSE AGENDA

- Connecting a Drive to a DeviceNet Network
- Commissioning a PowerFlex 700 Node on a DeviceNet Network
- Configuring Drive and Adapter Parameters Using RSNetWorx for DeviceNet Software
- Managing DeviceNet EDS Files for the PowerFlex 700 Vector Control Drive
- Configuring a DeviceNet Scanner Module to Communicate with a Drive Using RSNetWorx for DeviceNet Software
- Mapping Drive Inputs and Outputs on a DeviceNet Network Using RSNetWorx for DeviceNet Software



### COURSE NUMBER: CCA162

#### *Course Purpose*

This skill-building course introduces techniques and instructions that will assist you in successfully configuring a PowerFlex 700 vector control drive to communicate on an existing DeviceNet network.

Throughout the course, the instructor will demonstrate how to use RSNetWorx for DeviceNet software to perform tasks such as browsing the network, commissioning the PowerFlex 700 node, and configuring drive parameters. The instructor will also demonstrate scanner module configuration and input and output mapping. After each demonstration, you will be given an application-based exercise that offers extensive hands-on practice using the PowerFlex 700 vector control drive and RSNetWorx for DeviceNet 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.

#### *Who Should Attend*

Individuals who need to configure PowerFlex 700 vector control drives to communicate on a DeviceNet network should attend 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 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 students' learning experience, the following materials are provided to each student 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 the steps required to commission the DeviceNet adapter and locate and edit drive and adapter parameters.
- *DeviceNet and RSNetWorx Procedures Guide*, which contains clear and concise step-by-step procedures for performing the DeviceNet tasks addressed in class. By following the procedures in this job aid, students can immediately apply what is learned in the course to their own jobs.
- *PowerFlex 700 Standard and Vector Control Documentation Reference Guide*, which contains the most frequently-referenced information from several PowerFlex™ technical publications including the *PowerFlex 700 Adjustable Frequency AC Drive User Manual* and the *PowerFlex Communications DeviceNet Adapter 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 connect a PowerFlex 700 control drive to a DeviceNet network and configure the drive for communications. Students will perform the tasks using a PowerFlex 700 AC drive workstation and a fan demo. The fan demo introduces real-world configuring situations into a classroom setting.

### **Course Length**

This is a one-day course.

### **Course Number**

The course number is CCA162



### **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](http://www.rockwellautomation.com)**

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