

# Drives

## PowerFlex 750-Series Configuration and Startup



## Course Number

CCA182

## Course Purpose

Upon completion of this course, given a wired PowerFlex® 750-Series drive (PowerFlex 753 or PowerFlex 755) and AC motor, you will be able to properly install the drive, start up the drive, and configure drive parameters to meet application-specific needs.

Throughout the course, you will have the chance to use a variety of hardware and software 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 standalone course, or it can be taken in conjunction with other courses in the PowerFlex 7-Class curriculum to further broaden skills development.

## COURSE AGENDA

### DAY 1

- Verifying the PowerFlex 750-Series Drive Installation Environment
- Verifying PowerFlex 750-Series Drive Wiring and Grounding
- Locating and Modifying PowerFlex 750-Series Drive Data Using the A6 HIM
- Configuring EtherNet/IP Communications for a PowerFlex 750-Series Drive

### DAY 2

- Locating and Modifying PowerFlex 750-Series Drive Data Using Drive Software
- Starting Up a PowerFlex 750-Series Drive
- Interpreting PowerFlex 750-Series Control Block Diagrams
- Controlling PowerFlex 750-Series Drive Operation

## WHO SHOULD ATTEND

This course is intended for individuals who need to configure and start up PowerFlex 750-Series drives.

## 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)
- 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
  - Includes the key concepts, definitions, examples, and activities presented in this course
- Lab Book
  - Provides learning activities and hands-on practice. Solutions are included after each exercise for immediate feedback.
- PowerFlex 750-Series AC Drives Programming Manual
  - Source of drive parameters and other key data
  - Contains frequently referenced programming documentation
- PowerFlex 750-Series AC Drives Installation Instructions
  - Source for the basic steps for mechanical installation and for connecting incoming power, the motor, and basic I/O

- Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives
  - Provides basic information to install, protect, wire, and ground PWM AC drives

## HANDS-ON PRACTICE

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises using either an ABT-TDPF755CLS or ABT-TDPF753CLS workstation. Exercises focus on the skills introduced in each lesson.

## NEXT LEARNING LEVEL

Once you have an understanding of the topics and the skills covered in this course, you may want to attend other PowerFlex 750-Series drive training such as:

- PowerFlex 750-Series Configuration for an Integrated Architecture System course (Course No. CCA184).

## COURSE LENGTH

This is a two-day course.

## IACET CEUS

Rockwell Automation is authorized by IACET to offer 1.4 CEUs for this program.

