

# Drives

PowerFlex 700S Phase II  
Maintenance and Troubleshooting



## Course Number

PFX700S2-LD

## Course Purpose

This skill-building course introduces concepts and techniques that will assist students in successfully maintaining and troubleshooting a PowerFlex® 700S Phase II AC drive.

Students will learn how to recognize PowerFlex 700S Phase II drive hardware and properly wire the drive. Students will also learn to diagnose specific load related, environmental, and equipment faults. Throughout the course, the students will use the LCD HIM, DriveExplorer™ software, and DriveExecutive™ software to clear faults and alarms. After each demonstration, students will be given an application-based exercise that offers extensive hands-on practice using the PowerFlex 700S drive.

## COURSE AGENDA

- Understanding Drive Basics
- Understanding PowerFlex 700S Phase II High Performance AC Drive Hardware
- Configuring Parameters Using the LCD HIM
- Configuring Drive Parameters Using DriveExecutive Software
- Configuring Drive Parameters Using DriveExplorer Software
- Configuring Motor Control Options
- Selecting Speed Feedback Options
- Upgrading Communications Module Firmware
- Configuring a Gear-In Application
- Configuring Synchlink Communications
- Troubleshooting a PowerFlex 700S Phase II High Performance AC Drive
- Installing and Configuring a ControlNet Communications Adapter
- Installing and Configuring an EtherNet Communications Adapter

## WHO SHOULD ATTEND

Individuals responsible for starting up, configuring, maintaining, and troubleshooting PowerFlex 700S Phase II 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

## 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.

## 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 700S drive components and troubleshoot faults and alarms. The PowerFlex 700S drive workstation introduces real-world maintaining and troubleshooting situations into a classroom setting.

## COURSE LENGTH

This is a three-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>

Rockwell Automation is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU. [Click here](#) to view the Rockwell Automation Certificate of Accreditation.

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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