

Drives

PowerFlex DC Drive Troubleshooting Course Description (On-Site Only)*



Course Agenda

Day 1

- *Applying DC Drive Fundamentals* (Optional Review)
- *Applying DC Motor Fundamentals* (Optional Review)
- Identifying PowerFlex DC Drive Hardware
- Preparing for PowerFlex DC Drive Troubleshooting
- Locating and Modifying PowerFlex DC Drive Parameters Using the A3 LCD HIM
- *Locating and Modifying PowerFlex DC Drive Parameters Using the A6 LCD HIM* (Optional)
- Locating and Modifying PowerFlex DC Drive Parameters Using DriveExplorer Software

Day 2

- Locating and Modifying PowerFlex DC Drive Parameters Using DriveExplorer Software
- Clearing PowerFlex DC Drive Alarms and Faults
- Troubleshooting PowerFlex DC Load and Environmental Faults
- Troubleshooting PowerFlex DC Drive Equipment Malfunctions
- Integrated Practice: Troubleshooting a PowerFlex DC Drive



Course Number

CDD163

*On-Site Power Requirements

This course is only available as a private, on-site offering. Your company must be able to supply 230 volt, three-phase AC power to operate the PowerFlex® DC drive workstations.

Course Purpose

This skill-building course introduces concepts and techniques that will assist you in successfully troubleshooting a PowerFlex DC drive. You will learn how to recognize PowerFlex DC drive hardware and properly rewire the drive. You will also learn to diagnose and correct specific faults.

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

- LCD HIM
- DriveExplorer™ software
- DriveExecutive™ software

After each demonstration, you will be given exercises that offer extensive hands-on practice using the PowerFlex DC drive.

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

LISTEN.
THINK.
SOLVE.™

Who Should Attend

Individuals responsible for troubleshooting PowerFlex DC 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
- Knowledge of basic DC motor and drive fundamentals through the completion of the *AC/DC Motors and Drives Fundamentals* course (Course Number CCA101), *RSTrainer for Fundamentals of AC and DC Motors and Drives* computer-based training (Part Number 9393-RSTACD), or personal experience.

Student Materials

To enhance and facilitate the students' learning experience, the following materials are provided as part of the course package:

- *Student Manual*:
 - Contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.
- *PowerFlex Digital DC Drives User Manual*:
 - Includes wiring diagrams, start-up procedures, parameter lists, fault/alarm codes, and other configuration and troubleshooting tips.

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 a PowerFlex DC workstation (Catalog Number ABT-TDPFDC). Exercises focus on the skills introduced in each lesson.

The PowerFlex DC drive workstation helps introduce real-world troubleshooting situations into a classroom setting by allowing students to identify and fix common drive faults and alarms.

Course Length

This is a two-day course

IACET CEUs

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



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.

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www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846