

PowerFlex DC Drive Troubleshooting

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CDD163

COURSE MODULES & TOPICS

Objectives

- Identify PowerFlex DC drive hardware
- Locate and modify PowerFlex DC drive parameters using the A3 LCD HIM, the A6 LCD HIM (optional), and DriveExplorer software
- Clear PowerFlex DC drive alarms and faults
- Troubleshoot PowerFlex DC load, environmental faults, and drive equipment malfunctions
- Troubleshoot a PowerFlex DC drive
- Apply DC drive and motor fundamentals (optional review)
- Prepare for PowerFlex DC drive troubleshooting

Prerequisites

- 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 (CCA101) , RSTrainer for Fundamentals of AC and DC Motors and Drives computer-based training (Part Number 9393-RSTACD), or personal experience. (ePass/WBT1PACK) or equivalent experience

Student Materials

- Student Manual contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises
- PowerFlex DC Drives User Manual includes wiring diagrams, parameter lists, fault/alarm codes, and other configuration and troubleshooting tips

Course Agenda

Day 1

- Applying DC Drive Fundamentals (Optional Review)
- Applying DC Motor Fundamentals (Optional)
- 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