

PowerFlex DC Drive Configuration and Startup

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CDD161

COURSE MODULES & TOPICS

Course Purpose

- 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.

Objectives

- Applying DC Drive Fundamentals (Optional)
- Applying DC Motor Fundamentals (Optional)
- Identifying PowerFlex DC Drive Hardware
- Applying Power to a PowerFlex DC Drive
- Configuring PowerFlex DC Drive Parameters Using the A3 LCD HIM
- Configuring PowerFlex DC Drive Parameters Using the A6 LCD HIM (Optional)
- Configuring PowerFlex DC Drive Parameters Using DriveExplorer Software
- Configuring PowerFlex DC Drive Parameters Using DriveExecutive Software
- Preparing for a PowerFlex DC Drive Startup
- Tuning the PowerFlex DC Drive Current Regulator
- Tuning the PowerFlex DC Drive Speed Regulator
- Installing and Commissioning an EtherNet/IP Adapter
- Commissioning a PowerFlex DC Drive Using Drive Software
- Controlling PowerFlex DC Drive Operation

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) or Fundamentals of AC and DC Motors and Drives Web-based training (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)
- Applying DC Motor Fundamentals (Optional)
- Identifying PowerFlex DC Drive Hardware
- Applying Power to a PowerFlex DC Drive
- Configuring PowerFlex DC Drive Parameters Using the A3 LCD HIM
- Configuring PowerFlex DC Drive Parameters Using the A6 LCD HIM (Optional)
- Configuring PowerFlex DC Drive Parameters Using DriveExplorer Software

Day 2

- Configuring PowerFlex DC Drive Parameters Using DriveExecutive Software
- Preparing for a PowerFlex DC Drive Startup
- Tuning the PowerFlex DC Drive Current Regulator
- Tuning the PowerFlex DC Drive Speed Regulator
- Installing and Commissioning an EtherNet/IP Adapter
- Commissioning a PowerFlex DC Drive Using Drive Software
- Controlling PowerFlex DC Drive Operation