

# Drives

## PowerFlex 6000 Medium Voltage Drive Operation and Maintenance



### COURSE AGENDA

## Course Number

MV6000-LD

### Course Purpose

This course will provide you with techniques needed to facilitate operation and maintenance of the medium voltage PowerFlex® 6000 drive.

Emphasis is on hardware familiarity, programming procedures, and troubleshooting.

Upon completion of this course, you will have experienced and should be able to perform the following tasks:

- Adopt proper safety measures while working on medium voltage equipment
- Recognize proper drive and motor operation
- Understand the significance of key parameters
- Troubleshoot drive malfunctions
- Remove and replace power components of the PowerFlex 6000 adjustable frequency AC drive

### DAY 1

- PowerFlex 6000 Drive Product Overview
- PowerFlex 6000 Drive Topology
- PowerFlex 6000 Power Cells
  - Drive Component Identification - Discussion
  - Power Cell Replacement Lab
- PowerFlex 6000 Control Power Distribution

### DAY 2

- PowerFlex 6000 Drive Control System
- PowerFlex 6000 Drive HMI Operation
  - Drive HMI Operation - Parameter Monitoring/Editing Lab
- PowerFlex 6000 Drive HMI Operation - Recipes
  - Recipes Lab
- PowerFlex 6000 Drive HMI Operation - Power Cell Parameters

### DAY 3

- PowerFlex 6000 Drive Operation - Uploading Micro850® Controller Program Lab
- PowerFlex 6000 Drive Cooling
  - Verifying Cooling and Temp Protection Lab
- PowerFlex 6000 Voltage and Current Monitoring
  - Monitoring Variables Lab
- PowerFlex 6000 Preventative Maintenance
  - Verifying Anybus Module Settings Lab
  - Conducting a System Test Lab

## WHO SHOULD ATTEND

This course is intended for engineers, technicians, and electrical maintenance people engaged in the operation and maintenance of PowerFlex® 6000 medium voltage 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)
- Comprehensive knowledge of electrical principles and circuits
- Practical experience using a multimeter, ammeter, and oscilloscope

## TECHNOLOGY REQUIREMENTS

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

## 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, terms, definitions, and examples presented in this course
- Lab Book
  - Provides learning activities and hands-on practice

## HANDS-ON PRACTICE

Throughout the course, students will have the opportunity to practice skills they have learned through a variety of hands-on exercises. Students will also have the chance to combine and practice several key skills.





## 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 [rockwellautomation.com/training](http://rockwellautomation.com/training)

Connect with us.    

[rockwellautomation.com](http://rockwellautomation.com)

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