Course Agenda

**CAN7000-L (3 Days)**

**Lessons**
- MV Product Overview
- PF7000 Drive Topology
- Power Components
- Power Supplies (Classic and ForGe)
- Control System Components (Classic and ForGe)
- Voltage and Current Monitoring (Classic and ForGe)
- Drive Cooling System
- Drive Operation
- Maintenance and Troubleshooting

**Labs**
- Resistance Tests
- Power Component Replacements
- DC Voltage Test
- System Test
- Control Power Tests
- Review Classic and ForGe Drawings
- HMI PV550/PV1000 Operation
- Uploading Drive Data
- Downloading Drive Firmware

**CAN7000 (3.5 Days)**
Includes the following labs in addition to all CAN7000-L material:
- Gate Test
- Input Voltage Phasing Test
- DC Current Test
- Drive Autotuning

**CAN7000C-L (3.5 Days)**
Includes the following lessons in addition to all CAN7000-L material:
- Liquid-Cooled System Overview
- PF7000C Feature and Parameters
- Heat Exchangers
- Chill Block and Thermostatic Valve Replacement

**CAN7000C (4 Days)**
Includes all material listed above

Course Number

CAN7000
CAN7000-L
CAN7000C
CAN7000C-L

Course Purpose

This course will provide you with techniques needed to facilitate operation and maintenance of the MV PowerFlex® 7000 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 MV equipment
- Recognize proper drive and motor operation
- Understand the significance of all the key parameters
- Troubleshoot drive malfunctions

Remove and replace power components of the PowerFlex 7000 Adjustable Frequency AC Drive.
Who Should Attend
Engineers, technicians, and electrical maintenance persons engaged in the operation and maintenance of PowerFlex 7000 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

Which Course to Attend
Use the table below to determine the best course available for you based on the class location and applicable drive:

<table>
<thead>
<tr>
<th>Class Location</th>
<th>Frame A &amp; B (Air Cooled)</th>
<th>Frame C (Liquid Cooled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes commissioned drive</td>
<td>CAN7000 (3.5 days)</td>
<td>CAN7000C (4 days)</td>
</tr>
<tr>
<td>(Customer site or Cambridge, ON)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does NOT include commissioned drive</td>
<td>CAN7000-L (3 days)</td>
<td>CAN7000C-L (3.5 days)</td>
</tr>
<tr>
<td>(Customer site or MV Center of Excellence)</td>
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</tbody>
</table>

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 students’ learning experiences, the following materials are provided as part of the course package:

- **Student Manual**
  - Includes the key concepts, definitions, examples, and activities
- **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.

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

www.rockwellautomation.com

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