

# 1557™ Drive Maintenance

## COURSE DESCRIPTION

### COURSE AGENDA

#### Day 1

- Product Introduction
- Safety
- Verification of equipment Safety Interlocks
- Isolation procedures
- Equipment / cabling inspection
- Verification of control wiring
- Selection of Speed Commands
- Calibration of analog outputs
- Test modes – functionality
- Input phase rotation checks
- 12 Pulse / 18 Pulse phasing checks

#### Day 2

- Hands on
- System Feedback – Voltage and Current
- Setting up of speed profiles
- Autotune considerations

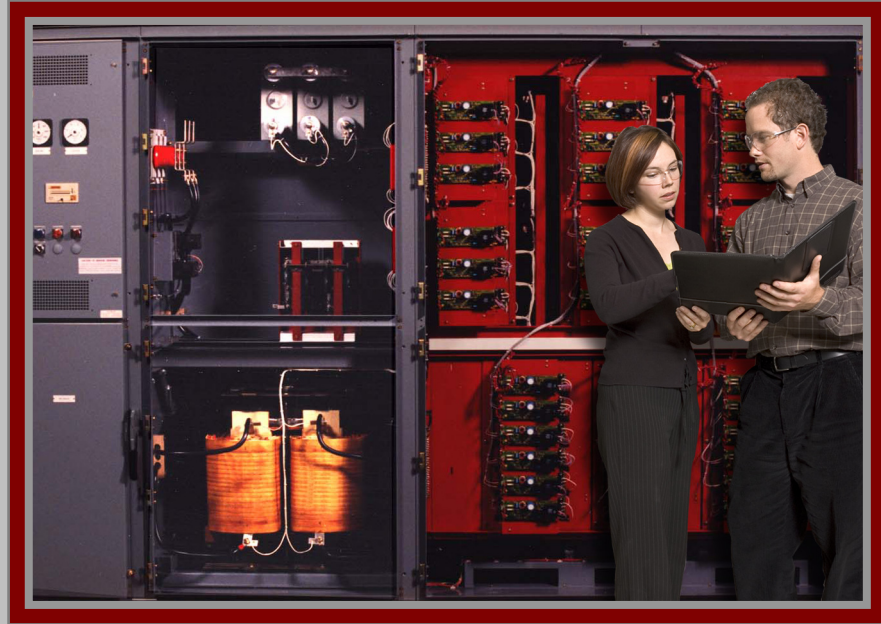
#### Day 3

- Autotuning
- Setting up of torque profiles
- Discussion of protection
- Tach Installation / considerations
- No load running

#### Day 4

- Running on load
- Application profiles
- Setting up a drive for various load profiles and applications
- Troubleshooting the Drive

## Medium Voltage 1557™ Drive Maintenance



**COURSE NUMBER: MV-CCA156**

### COURSE PURPOSE

To provide the students with techniques needed to facilitate operation and maintenance of the MV 1557™ Drive. Emphasis is on hardware familiarity, programming procedures, and troubleshooting.

Upon completion of this course, the students 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 1557™ Adjustable Frequency AC Drive.

### ***Who Should Attend***

Engineers, technicians, and electrical maintenance persons engaged in the operation and maintenance of the Medium Voltage equipment.

Typically the course begins Tuesday at 8:30 a.m. until approximately 5:00 p.m. Course ends Friday at noon.

### ***Prerequisites***

To successfully complete this course, the following prerequisites are required:

- Familiarity with sound safety procedures
- Comprehensive knowledge of electrical principles and circuits
- Practical experience using a multimeter, ammeter and oscilloscope

### ***Student Materials***

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

- Student Manual, which contains the topical outlines and exercises. Students will use this manual to follow presentations, take notes, and work through the exercises.
- By following the procedures in this job aid, students can immediately apply what is learned in the course to their own jobs.

### ***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 by utilizing 1557™ demo equipment

### ***Course Length***

This is a three and half day course.

The course number is MV-CCA156.

### ***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/services>

### ***Course Number***

**www.rockwellautomation.com**

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### **Power, Control and Information Solutions**

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