

Starter/SMC-FLEX™/Synchronous Starter Maintenance

COURSE DESCRIPTION

COURSE AGENDA

Day 1

- Product Introduction
- Bulletin 1500 Product Introduction
- Safety seminar
- Mechanical Interlocks, Isolation Switches and Fuses
- Vacuum Contactor (Series A to E)

Day 2

- AC Motor Fundamentals
- Starter Operation
- CPTs, PTs and CTs
- Protection Devices
 - 825-SMM
 - Bul. 592, SMP-3
 - Third Party
- Overview of SMC-FLEX Starter Operation

Day 3

- Details of SMC-FLEX Operation
- Start/Stopping modes
- Power Circuits
- Component identification
- Control circuits for 1560E/1562E (Standard/Pump Control)
- SMC-FLEX Commissioning procedure
- Programming the SMC-FLEX module, defaults & recommended settings
- Waveforms, resistances, control checks, meggering, component verification
- SMC-FLEX Troubleshooting
 - Fault descriptions & fault codes

Day 4

- Running on load and final tuning
- Application profiles
- How to set up a Starter for various applications
- Troubleshooting the Starter
- SMC-Flex Component Replacement
 - Stacks, SCRs, Snubber Components, PCBs, Control

Medium Voltage Starter/SMC-FLEX™/Synchronous Starter Maintenance



COURSE NUMBER: MV-CAN800

COURSE PURPOSE

To provide the students with techniques needed to facilitate operation and maintenance of the MV Starter/SMC-FLEX™/Synchronous Starter. 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 Starter and motor operation
- Understand the significance of all the key parameters
- Troubleshoot Starter malfunctions
- Remove and replace power components of the Starter

LISTEN.
THINK.
SOLVE.®

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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 Starter/SMC-FLEX™/Synchronous equipment.

Course Length

This is a three and half day course.

Course Number

The course number is MV-CAN800.

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>

www.rockwellautomation.com

Power, Control and Information Solutions

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