Power Control (Drives and Motor Control Centers)

CENTERLINE MCC with IntelliCENTER
Software Commissioning on an EtherNet/IP Network

Rockwell Automation

Allen-Bradley
by ROCKWELL AUTOMATION

Course Number

CCI108

Course Purpose

After completing this course, given a newly installed CENTERLINE® MCC with IntelliCENTER® software, you should be able to produce an operational motor control system over an EtherNet/IP network.

Throughout the course, you will work with a number of hardware and software products, including:

- IntelliCENTER software
- E300™ and E3 Plus™ electronic overload relays
- PowerFlex® 525 and PowerFlex 40 variable speed drives
- Stratix® 5700 industrial Ethernet switches
- Logix5000™ controllers and the Studio 5000 Logix Designer® application
- FactoryTalk® View software

You will be introduced to a variety of tools you can use to ensure proper functioning of a motor control system. This course also shows how CENTERLINE MCCs interact with other parts of a control system.

COURSE AGENDA

DAY 1

- Recognizing CENTERLINE MCC Structure and Assembly
- Verifying Connections Between CENTERLINE MCC Sections
- Implementing an EtherNet/IP Topology for a CENTERLINE MCC
- Configuring Stratix 5700 EtherNet/IP Switch Settings
- Installing IntelliCENTER Software and MCC Data Disks

DAY 2

- Configuring IntelliCENTER Security and Management Settings
- Integrating IntelliCENTER Energy with FactoryTalk EnergyMetrix Software
- Modifying CENTERLINE MCC Lineup Properties Using IntelliCENTER Software
- Configuring E300 and E3 Plus Electronic Overload Relays
- Configuring PowerFlex 525 and PowerFlex 40 Drive Parameters
- Adding MCC Devices and Uploading Data to a Studio 5000 Logix Designer Application

DAY 3

- Working with Automatic Device Configuration for IntelliCENTER MCC Devices
- Adding IntelliCENTER ActiveX Controls to a FactoryTalk View Application
- Viewing IntelliCENTER Energy Software Data
- Adding Documentation to an IntelliCENTER Software Database
- Modifying the MCC Device Spare Parts List in IntelliCENTER Software
- Managing IntelliCENTER Software Databases

WHO SHOULD ATTEND

System engineers and/or other individuals responsible for starting the operation of a CENTERLINE motor control center should attend this course.

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)
- Completion of the *Studio 5000 Logix Designer Level 1: ControlLogix System Fundamentals* course (Course No. CCP146) or equivalent experience.

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, definitions, examples, and activities presented in this course
- CENTERLINE MCC on an EtherNet/IP Network Procedures Guide
  - Provides step-by-step instructions for tasks that are common to devices that can interact with a motor control center
- EtherNet/IP Procedures Guide
  - Provides the steps required to complete tasks common to configuring Stratix® switches and other devices for communication over an EtherNet/IP network

HANDS-ON PRACTICE

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises using ABT-TDMCCENET and ABT-TDIALITE workstations. Exercises focus on the skills introduced in each lesson.

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 **http://www.rockwellautomation.com/training**

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