US802
Control Builder M Professional, Process Panel, and Drives Integration

Learn to configure an AC800M controller using Control Builder M Professional and to configure Process Panel as an operator interface. An introduction to interfacing drives to the AC800M controller is also provided.

**Course type and methods**
This is an instructor led workshop with short presentations and demonstrations, extended exercises, and hands-on sessions and discussion. Approximately 50% of the course is hands-on lab.

**Student Profile**
This course is targeted to control engineers, system engineers, service engineers, and maintenance technicians.

**Prerequisites**
Students should have basic knowledge of process control and the Microsoft Windows® operating system.

**Course objectives**
Upon completion of this course the participants will be able to:
- Build and configure a small system using AC800M controllers and Process Panel
- Use a project description and P&ID to define a control logic solution to meet process control objectives
- Use Control Builder to make the connection between S800 I/O modules and the control logic
- Recognize a variety of IEC 61131-3 compliant languages that Control Builder uses to implement control logic in an AC800M controller.
- Configure a Process Panel to act as an operator interface and establish communication with the AC800M controller
- Configure an interface between the AC800M controller and an ABB drive

**Main Topics**
- AC800M, Control Builder, and Process Panel system architecture
- AC800M and S800 hardware
- Creating a Control Builder project
- Managing libraries
- Connecting I/O
- Using IEC 61131-3 programming languages
- Creating an using control modules
- External communications
- Process panel communications
- Process panel configuration
- Control Builder and Process Panel builder project maintenance
- Drives integration

**Duration**
The duration is 4 1/2 days
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Day 1:
- AC800M and S800 I/O hardware
- Creating a framework for a project
- Managing libraries
- Variables and data types

Day 2:
- Using Control Modules
- Analyze the Control Builder Project
- Connecting and Configuring I/O
- Task Assignment and Scheduling
- Downloading and going online

Day 3:
- Function Block Language
- Other IEC Languages
- Configuring external communications
- Control Builder project maintenance

Day 4:
- Interfacing Process Panel with AC800M
- Configuring Process Panel graphics
- Additional Process Panel configuration
- Process Panel maintenance

Day 5:
- Interfacing drives with AC800M

To register, contact the North America Customer Service Center or visit us online.
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