

Course description

SE530

Configuring AC 800M using Compact Control Builder

Course goal

The goal of this course is to learn the configuration of a control project using AC 800M controllers and Compact Control Builder as the engineering tool.

Learning objectives

Upon completion of this course the participants will be able to:

- Create a new control project and plan the structure of application programs based on a P&ID and a Functional Specification
- Configure the AC 800M hardware and corresponding I/O's
- Handle the standard libraries provided by ABB and develop project specific libraries
- Design and configure application programs by using a variety of IEC 61131-3 languages
- Define tasks and describe the assignment rules
- Analyze the controller diagnostics
- Configure user defined object types

Participant profile

This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

Prerequisites

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows operating system.



Topics

- Creating a Compact Control Builder project
- AC 800M hardware
- Libraries
- Variables and data types
- Function Block Diagram
- Structured Text
- Task assignment and memory
- Control Modules
- Diagrams
- User defined object types
- Sequential Function Charts (SFC)
- Communication
- Alarm Handling
- Search and Navigate
- Backup and Restore

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Duration

The duration is 4 days.

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Course outline

| Day 1 | Day 2 | Day 3 | Day 4 |
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| <ul style="list-style-type: none">■ Course information■ Getting started■ AC 800M hardware■ Libraries | <ul style="list-style-type: none">■ Variables and Data types■ Function Block Diagram■ Structured Text■ Task Assignment and Memory | <ul style="list-style-type: none">■ Control Modules■ Diagrams■ User defined object types■ Sequential Function Charts (SFC) | <ul style="list-style-type: none">■ Communication■ Alarm Handling■ Search and Navigate■ Backup and Restore |