Course description

INT530
Configuring AC800M Using Compact Control Builder

Course goal

The course goal is to teach the students to configure an AC 800M controller using Compact Control Builder.

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

- Compact Control Builder system architecture
- Creating a Compact Control Builder project
- AC 800M and S800 Hardware
- Downloading of the project
- Libraries
- Variables and data types
- Function Block Diagram
- Structured Text
- Task assignment and memory
- Control Modules
- 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. The language of the course is English.

Duration

The duration of the course is 4 days.

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Course outline

Day 1	Day 2	Day 3	Day 4
■ Course information ■ Getting started ■ Hardware configuration and I/O connection ■ Download ■ Libraries	■ Variables and data types ■ Function block diagram ■ Structured test ■ Task assignment and memory	■ Control modules ■ User defined object types ■ Sequential function charts (SFC)	■ Communication ■ Alarm Handling ■ Search and Navigate ■ Backup and restore

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