T317
System 800xA with AC 800M FOUNDATION Fieldbus Device Management

Course goal

The goal of this course is to learn the planning, configuration and commissioning of automation solutions with FOUNDATION Fieldbus devices in the Extended Automation System 800xA.

Learning objectives

Upon completion of this course, the participants will be able to:
- Explain the fundamentals of fieldbus technologies especially FOUNDATION Fieldbus
- Design and plan the topology of a System 800xA with FOUNDATION Fieldbus devices
- Install the required software components and perform post installation steps
- Configure and commission FF devices out of the ABB Device Library
- Use Fieldbus Builder for parameterization, diagnostic and simulation
- Use Fieldbus Builder to configure Function Blocks within FF devices
- Use FF data in applications for control, alarms, graphics etc.
- Configure FF devices not within the ABB Device Library
- Exchange FF field devices

Participant profile

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

Prerequisites and Recommendations

Students should have attended either the Basic Configuration course T314 or the Engineering course T315 or have knowledge and experience associated with the content of these courses.

Topics

- FOUNDATION Fieldbus fundamentals
- System 800xA topology with FF field devices
- LD800HSE linking device
- FF Library
- HSE Subnet configuration
- Function Blocks and Scheduling
- Integrate HSE subnet into the system
- Control applications using FF data
- Devices not in ABB Device Library
- Device exchange and calibration
- Software installation

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.

Course duration

The duration is 3 days.

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Course outline

Day 1

- Course overview
- FOUNDATION Fieldbus fundamentals
- System 800xA topology with FF field devices
- LD800HSE Linking device
- FF Library

Day 2

- HSE Subnet configuration
- Function Blocks and Scheduling
- Integrate HSE subnet into the system

Day 3

- Control applications using FF data
- Devices not in ABB Device Library
- Device exchange and calibration
- Software installation

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