

# 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, students 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

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
- Bulk data Manager
- Control applications using FF data
- Devices not in ABB Device Library
- Device exchange and calibration
- Installation and Configuration checks

### 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 3 days.

Course description

# T317

## System 800xA with AC 800M

# FOUNDATION Fieldbus Device Management

### Course outline

#### Day 1

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- Course overview
  - FOUNDATION Fieldbus fundamentals
  - System 800xA topology with FF field devices
  - LD800HSE Linking device
  - FF Library
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#### Day 2

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- HSE Subnet configuration
  - Function Blocks and Scheduling
  - Integrate HSE subnet into the system
  - Bulk Data Manager
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#### Day 3

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- Control applications using FF data
  - Devices not in ABB Device Library
  - Device exchange and calibration
  - Installation and Configuration checks
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