

# ABB UNIVERSITY COURSE DESCRIPTION

# **T317** Foundation Fieldbus Device Management



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.

### 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.

#### **Student 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.

#### **Course 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 the Ac800M hardware and i/o's
- 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

#### Main topic

- Foundation Fieldbus Fundamentals
- System 800xA topology with FF Field devices
- ProjecLd800HSE Linking device
- FF Library

**Course Outline** 

- 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

## **Duration** The duration is 3 days

Day 1	Day 2	Day 3	Day 4	Day 4
Course overview Foundation Fieldbus fundamentals System 800xA topology with FF field devices LD800HSE Linking device FF Library	HSE Subnet configuration Function Block and Scheduling Integrate HSE subnet into the system Bulk Data Manager	Control applications using FF data Devices not in ABB Device Library Installation and configuration checks		

ABB University BU Process Industries Products

abb.com/controlsystems

abb.com/abbuniversity

800xA is a registered or pending trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document. We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2019 ABB All rights reserved