**T303 System 800xA using Foundation Fieldbus**  
**Field Device Integration with Asset Optimization**

**Course Description**

**Course Duration**  
The duration is 4 days.

**Course Type**  
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 40% of the course is hands-on lab activities.

**Course Goal**  
The goal of this course is to learn the configuration and commissioning of Foundation Fieldbus-applications with Asset Optimization in the Extended Automation System 800xA.

**Student Profile**  
This training is targeted to System 800xA users who want to couple FF devices to 800xA controllers.

**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.

**Course Objectives**  
Upon completion of this course, students will be able to:

- Explain the fundamentals of Foundation Fieldbus
- Design and plan the topology of a System 800xA with Foundation Fieldbus devices
- Use the Fieldbus Builder FF
- Configure, commission and maintain a Foundation Fieldbus installation using the LD800HSE linking device
- Configure the data exchange between FF devices and OPC server
- Configure the data exchange between FF devices and 800xA controllers using CI860
- Build an application using FF devices of the ABB Device Integration Package
- Set up messenger services
- Use the integrated Asset Maintenance Workflow

**Main Topics**

- Foundation Fieldbus fundamentals
- System 800xA topology with FF field devices
- LD800HSE Linking device
- Fieldbus Builder FF
- HSE Subnet
- Data exchange with OPC server
- Upload FF configuration
- Data exchange with CI860
- SMS, E-mail messaging
- Maintenance Workplace
- CMMS Maximo, SAP/PM Connectivity
- ABB device integration package with predefined devices containing: OPC connectivity, faceplates, Asset Monitors
- Availability, Wiring, Safety
Course Outline

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