ABB University

T320 System 800xA for Advant Master Configuration

Course description

Course goal
The goal of this course is to learn the installation, configuration and maintenance of the Extended Automation System 800xA for Advant Master AC400 and AC100.

Learning objectives
Upon completion of this course, the participants will be able to:

- Plan an appropriate architecture for an 800xA system with Advant Master
- Install the AC400 Connect software (AC100 Connect optional)
- Navigate in the system and create new objects/aspects
- Configure and maintain the communication between 800xA and Advant controllers
- Configure process graphic displays and define navigation links
- Modify faceplates and create graphic elements
- Manage and configure alarm and events
- Set up the historical data collection and configure trend displays
- Configure time synchronization
- Create and customize OperatorWorkplaces
- Configure user accounts and describe how access rights work
- Backup and restore System 800xA data
- Create simple reports using MS Excel Data Access

Prerequisites
Students should have attended the AC400 configuration course A331 (course A400 for AC100) or have knowledge and experience associated with the content of these courses.

Topics
- System 800x architecture for Advant Master
- AC400 Connect installation
- Plant Explorer
- Controller communication and Database integration
- Plant modelling
- Graphic displays
- Graphic elements
- Faceplates
- Alarm and events
- Historical data collection
- Trend displays
- Operator Workplace
- User security
- Time synchronization
- Backup and restore
- Simple reports

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

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 5 days.
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Course outline

Day 1
• Course Overview
• System 800xA Architecture
• Operation
• Plant Explorer
• Introduction System Handling

Day 2
• Controller Communication
• Plant Modelling
• Graphic Display PG2

Day 3
• Graphic Elements
• Faceplates PG2
• Alarm and Events

Day 4
• Historian and trends
• Status List
• Workplace Configuration
• Security

Day 5
• Backup and restore
• Simple reports
• Time synchronization

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