ABB University

T307 / System 800xA Batch Management

Engineering and Operation

Course description

Course goal
The goal of this course is to learn the operation and engineering of the Batch Management provided by the Extended Automation System 800xA.

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

• Explain the Procedural model and Equipment model
• Describe the modes and states according ISA S88.01
• Schedule and monitor batches
• Control and operate batch procedures in auto, semi-auto and manual mode
• Configure Procedure Function Charts on various level of complexity
• Allocate resources and handle transfers
• Edit recipes in run-time
• Configure exception handling
• Describe the integration of Batch Management with the AC 800M controller
• Analyse historical batch data collection
• Configure reports in MS Excel

Student profile
This training is targeted to commissioning and maintenance personnel, production managers, operators, process and application engineers.

Topics
- Overview 800xA Batch Management
- Introduction to ISA S88
- Scheduling a single unit batch
- Controlling a single unit procedure
- Manual phase control
- Batch historical data
- Configuring simple unit recipes
- Configuring complex unit recipes
- Runtime-edit procedures
- Exception handling
- Link Batch Management to AC 800M
- Production recipes
- Batch Spreadsheet Scheduler / Formulation
- Miscellaneous

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises.

Course duration
The duration is 5 day.
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Course outline

Day 1
- Course overview
- Overview 800xA Batch Management I
- Introduction to S88
- Scheduling a single unit batch

Day 2
- Controlling a single unit procedure
- Manual Phase control
- Batch historical data
- Configuring simple unit recipes

Day 3
- Configuring complex unit procedure
- Runtime-edit procedures
- Exception Handling

Day 4
- Link Batch management to AC 800M
- Production recipes
- Excel spreadsheets

Day 5
- Miscellaneous
- Batch spreadsheet scheduler

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