

Expert Workshop description

E122

System 800xA with AC 800M

Designing and Engineering Batch Applications

Workshop goal

Structured batch design based on international standards with a well-defined interface to plant equipment is essential for optimized System 800xA batch applications. Students learn how to design and implement batch applications based on the S88 physical model hierarchy utilizing advanced batch templates.

Learning objectives

Upon completion of this workshop the participants will be able to:

- Design batch applications for AC 800M controllers and describe the relevant implementation strategy
- Describe the method used to link S88 physical and procedure model in System 800xA
- Structure a batch application according to the ISA S88 physical model
- Use the advanced batch templates for equipment modules and phases
- Structure and configure phase parameters
- Configure phase types and the phase logic for different states
- Structure phases and define the link to the equipment
- Explain methods of organizing batch project libraries
- Configuring units and equipment modules
- Define equipment types and equipment attributes
- Configure the link between recipe procedures and the physical plant equipment
- Setting up exception logic and interlocks
- Optimize batch performance with good engineering practices

Participant profile

This Expert Workshop is targeted to application engineers, service & support engineers and project lead engineers.

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. In addition the completion of the Batch Management course T307 is required. Previous experience with batch applications is also desirable.

The required knowledge can be verified with user assessment modules T710e-01 and T710e-04.



Workshop type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, hands on sessions and discussion.

Duration

The duration is 4½ days.

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3BDS011567-122/F