

Course description

NO380 Power Management System 800xA with ABB PMS Lib Engineering, Operation, Solutions

Course goal

The goal of this course is to learn the engineering of a control project based on PMS Library Solutions using the Extended Automation System 800xA with AC 800M controllers and Control Builder as the engineering tool.

Learning objectives

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

- Understand the scope of the PMS solution
- Install PMS libraries and system extensions
- Knowledge of the PMS documentation/Manuals
- Structure and configure PMS applications
- Know the main objects/Functionality of PMS
- Basic Graphical introduction to PMS specifics
- Operate a plant controlled by PMS application

Participant profile

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

Prerequisites

Students shall know the fundamentals of 800xA Engineering with AC800M. Skill level shall be similar to completed T315C/F and T315H courses.



Topics

- PMS introduction and overview
- PMS documentation
- PMS library installation
- Commonly used blocks and common properties
- Typical structuring of applications
- Typical project programming guidelines for applications using PMS blocks
- PCS applications using PMS blocks
- Graphics special to PMS

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 60% of the course is hands-on lab activities.

Duration

The duration is 5 days.

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Course outline

Day 1	Day 2	Day3	Day4	Day 5
Introduction/ Course Information Library Overview (exercise 5.1) Prime Electrical Components Single Line Diagram Network Determination (exercise 6.1)	Generator (exercise 7.1) Transformer (exercise 8.1) Circuit Breaker (exercise 9.1)	Power Control Active / Reactive Power Control (exercise 10.1) Mode Management (exercise 10.1) Synchronization (exercise 11.1)	Load Shedding Overload Loadshedding Underfrequency- Loadshedding Load Substation Load Shedding (exercise 12.1)	Operation of plant: Startup: Generators Operation of Breakers Load sharing Power management Introduction to PMS typical graphics

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