Course description

# J410 AC 800PEC Control Builder training

## Course goal

The goal of this course is to learn the engineering of the System 800xA with AC 800PEC controllers.

### Learning objectives

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

- Explain the System 800xA architecture and the function of the different components
- Create a new project and plan the structure of application programs
- Configure the AC 800PEC hardware and corresponding I/O's
- Design and configure application programs by using a variety of IEC 61131-3 languages
- Setup the OPC connectivity to AC 800PEC
- Develop project specific libraries

### **Participants**

This training is targeted to application engineers, programmers and system integrators.

### **Prerequisites**

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Microsoft Windows and they should have attended the course J400 "AC 800PEC HW and Tools" or have knowledge and experience associated with the content of this course.



Classroom training

# **Topics**

Configuration:

- Compact 800 Overview
- AC 800PEC and AC800M Hardware
- Libraries
- Matlab/Simulink Interface
- Variables and Data types
- Function Block Diagram
- Structured Text
- Task Assignment / Memory
- Control Modules
- Sequential Function Charts (SFC)
- Communication
- OPC connectivity
- Alarm Handling
- Backup and Restore

#### 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**

5 days

Max. 8 participants

Tailor made and on-site training courses on request

#### Enrollment

Participants are kindly requested to apply online for public courses. Custom-tailored training courses are only available on request.



ABB Switzerland Ltd.
Learning Center Power Electronics and MV Drives
Austrasse

CH-5300 Turgi / Switzerland

E-mail: training-pesmvd@ch.abb.com

http://new.abb.com/service/abb-university

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