

Course description

J400 AC 800PEC Hardware and Tools training

Course goal

The "AC 800PEC" Control Platform is ABB's high performance process control system and belongs to the Contro-IIT product line.

The AC 800PEC is the optimum solution for combining:

- the high-speed control requirements of power electronic applications
- low-speed process control tasks usually carried out by separate PLC units

The AC 800PEC controller is configured and programmed using Control Builder M, ABB's well-established programming tool complying with IEC 61131-3, and MATLAB®/ Simulink® with Real-Time Workshop®.

The course goal is to provide application, development engineers with enough skills to be able to commence developing products using the AC 800PEC platform.

Learning objectives

Upon completion of this course, the students:

- Are familiar with the various hardware devices of the AC 800PEC control platform
- Are able to use the AC 800PEC tool to download/upload software from/to the AC 800PEC controller
- Are able to use the AC 800PEC Tool for diagnosis



Classroom training

Participants

Application, test, service and commissioning engineers

Prerequisites

Basic knowledge of electronics

Personal computer knowledge

Topics

Configuration:

- Introduction to AC 800PEC family of hardware components
- Choices of fundamental configurations
- Configuration workshop using table model
- Principle of operation of the hardware devices
- The I/O interfaces of AC 800PEC
- Communication to upper control levels
- System 800xA integration
- Software Tools:
- How to get started, download, backup and installation procedures using the AC 800PEC tool
- Overview of MATLAB/Simulink capabilities, enabling application, development engineers to understand what possibilities are available
- Configuration and use of AC 800PEC tool
- Error handling, recovery boot procedures

Methods

Lectures, presentations, demonstrations, exercises using table models

Duration

2 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.

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