COURSE DESCRIPTION

CHJ410 – AC800PEC for HPR Control Builder

Course goal

The goal of this course is to learn the engineering of the System 800xA with AC800PEC controllers based on standard hardware and software applications used in HPR.

Main learning objectives

The participants 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 made for HPR
- Configure the AC800PEC hardware and corresponding I/Os for HPR field
- Design and configure application programs by using a variety of IEC 61131-3 languages
- Setup the OPC connectivity to AC800PEC and Process Panel 800
- Develop project specific libraries

Participant profile

This training is targeted to application engineers, programmers and system integrators who are working with HPR installation.

Prerequisites

Students shall know the fundamentals of working with control systems and have basic knowledge of Microsoft Windows. They should have attended the course CHJ400 “AC800PEC for HPR – Hardware and Tools” or have knowledge and experience associated with the content of this course.

Topics

- Compact Control Builder overview
- AC800PEC and AC800M hardware
- Libraries
- Matlab/Simulink interface of HPR
- Variables and data types
- Function block diagram
- Structured text
- Task assignment/memory
- Control modules
- Communication
- OPC connectivity
- Alarm handling
- Backup and restore

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.

Remarks

Custom-tailored and on-site training courses are offered on request.

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