F854
ABB Automation Products AC500 CP600 Basic Training

Course Duration
The duration is 2 days.

Course Type
This is an instructor led course. Approximately 50% of the time is used for hands-on labs and practical exercises.

Course Goal and Learning Objectives
The objective of this course is to discover the CP600 range and to become familiar with the PB610 programming software tasks.

Student Profile
This training is targeted at application engineers, programmers and system integrators.

Prerequisites and Recommendations
Students should have attended the F850 AC500 Basic course or have knowledge and experience associated with the content of this course.

Main Topics of the Training
Project structure and programming
- Presentation and overview of CP600 series
- Basic programming concepts and system Properties
    - HMI Runtime & Basic Unit Settings
    - Create a first project
    - Configuring Protocols
    - Adding and configuring of Tags
    - Designed the Pages of project
    - Working with Widgets Gallery
    - Defined and used Object properties
    - "Attach to" operation
    - Creation of Events and used Action list
    - Creation of Custom Widgets
    - Creation and used Page Template
    - Creation and used a Custom Keypad
    - Download first project in CP600 panel

- Trends management
    - Configuring trend buffers and sampling conditions
    - Working with Real Time trend widget
    - Working with History trend widget
    - Exporting trend buffer data to csv file
- Alarms management
    - Configuring alarm editor and buffers
    - Working with alarms widget
    - Working with alarms history widget
    - Exporting alarm buffers data as csv file
- Recipes management
    - Configuring recipes editor
    - Definition of recipe fields
    - Working with recipe widget
    - Upload and download of recipes
- Multilanguage:
    - Definition of different languages in project
    - Change languages at Runtime
    - Export and Import of Multilanguage strings
- Communication between AC500 and CP600
    - Presentation and overview of drivers
    - ABB Modbus RTU and TCP
    - ABB CoDeSys Serial and ETH
- User Management and Passwords
    - Configuring Security options
    - Configuring Groups and Authorizations
    - Configuring Users and permission of
    - groups
- JavaScript Introduction
    - Introduction of concept
    - Language reference, execution, events, debugging and examples….

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Course outline

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Day 1 (9:00 start)	Day 2 (9:00 start)

▪ **Presentation & overview of CP600 series**
▪ **Basic programming concepts & system properties**
    ▪ HMI Runtime & Basic Unit Settings
    ▪ Create a first project
    ▪ Configuring Protocols
    ▪ Adding & configuring of Tags
    ▪ Designed the Pages of project
    ▪ Working with Widgets Gallery
    ▪ Defined & used Object properties
    ▪ "Attach to" operation
    ▪ Creation of Events & used Action list
    ▪ Creation of Custom Widgets
    ▪ Creation & used Page Template
    ▪ Creation & used a Custom Keypad
    ▪ Download project in CP600 panel
▪ **Trends management**
    ▪ Configuring trend buffers &
    ▪ sampling conditions
    ▪ Working with Real Time trend widget
    ▪ Working with History trend widget
    ▪ Exporting trend buffer data to csv
    ▪ file
	▪ **Alarms management**
	    ▪ Configuring alarm editor & buffers
	    ▪ Working with alarms widget
	    ▪ Working with alarms history widget
	    ▪ Exporting alarm buffers data as csv file
	▪ **Recipes management**
	    ▪ Configuring recipes editor
	    ▪ Definition of recipe fields
	    ▪ Working with recipe widget
	    ▪ Upload & download of recipes
	▪ **Communication between AC500 & CP600**
	    ▪ Presentation & overview of drivers
	    ▪ ABB Modbus RTU & TCP
	    ▪ ABB CoDeSys Serial & ETH
	▪ **User Management & Passwords**
	    ▪ Configuring Security options
	    ▪ Configuring Groups & Authorizations
	    ▪ Configuring Users & permission of groups

Please note that participants will use their own notebook with PB610 Panel Builder. Please install the current version of PB610 Panel Builder software by yourself prior to the training.

Course Bookings

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