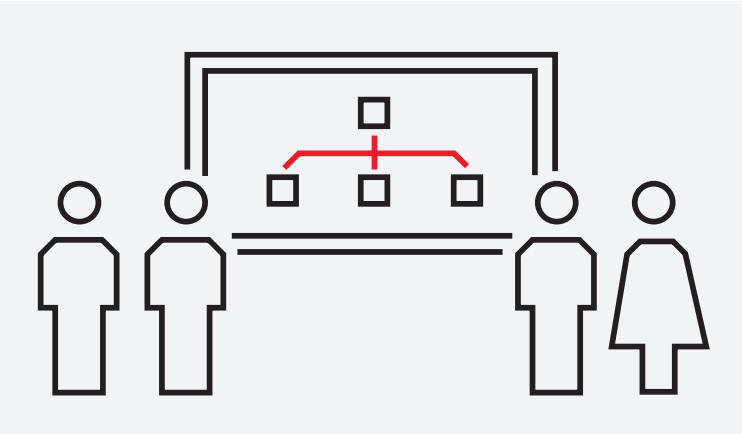
COURSE DESCRIPTION

S431

Symphony Plus - SCADA system configuration



The goal of this course is to learn the configuration and features of the Symphony Plus operator console (HMI) used in SCADA applications .

Learning objectives

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

- Identify S+ Operations system architecture in SCADA application
- Apply basic system sizing criteria
- Setup the network communication of Symphony Plus system nodes
- Install Symphony Plus Software
- Configure and manage the system users
- Utilize the various tools available in S+ Engineering for system configuration
- Create graphic elements
- Manage and configure alarm and events
- Set up the historical data collection and configure trend displays
- Setup Web Client
- Set up Mobile Client
- Configure third party communication
- Diagnose S+ Operations stations
- Configure historical reports and scheduler
- Execute project backup and restore
- Utilize S+ Operations utilities

Participant profile

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

Prerequisites

Students should have a general understanding of process automation and basic knowledge of SCADA systems. Experience in dealing with and handling of current Microsoft operating system is an advantage.

Topics

- Symphony Plus SCADA architecture and sizing
- PC network setup
- Time synchronization
- S+ Engineering and S+ Operations Installation
- SCADA workflow overview
- S+ SCADA Licensing
- S+ Engineering Navigation
- S+ Engineering User Management
- S+ Engineering Project Admin
- S+ Engineering Topology Design
- S+ Engineering Bulk Engineering
- S+ Engineering Connectivity
- S+ Engineering Universal Connect
- S+ Engineering Operations Engineering
- S+ Operations multi-server configuration
- S+ Operations SCADA architectures examples
- S+ Operations Server Redundancy
- S+ Operations Navigation
- S+ Operations Database
- S+ Operations Display Builder
- S+ Operations Graphical Symbols and Faceplates
- S+ Operations Alarms and Events
- S+ Operations Historical Data and Trends
- S+ Operations Point of Control
- S+ Operations Command Gateway
- S+ Operations Mobile Web Client
- S+ Operations stations diagnostic
- S+ Operations historical report & scheduler
- S+ Operations Utilities

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Duration
9 1/2 days

Agenda

Day 1	Day 2	Day 3	Day 4	Day 5
Course overview	SCADA workflow overview	S+ Engineering Topology Design	S+ Engineering Universal Connect	S+ Operations multi-server configuration
Symphony Plus SCADA architectures and sizing	S+ Engineering Navigation	S+ Engineering Bulk Engineering	S+ Engineering Operations Engineering	S+ Operations SCADA architectures examples
PC network setup Time synchronization	S+ Engineering User Management	S+ Engineering Connectivity	Hands-on lab: Exercises	S+ Operations Server Redundancy
S+ Engineering and S+ Operations Installation	S+ Engineering Project Admin	Hands-on lab: Exercises		Hands-on lab: Exercises
S+ SCADA Licensing	Hands-on lab: Exercises			Questions and Answers

Day 6	Day 7	Day 8	Day 9	Day 10
S+ Operations Navigation	S+ Operations Graphical Symbols and Faceplates	S+ Operations Historical Data and Trends	S+ Operations Thin Web Client	S+ Operations Utilities
S+ Operations Database	S+ Operations Alarms and Events	S+ Operations Point of Control	S+ Operations Mobile Web Client	Hands-on lab: Exercises
S+ Operations Display Builder	Hands-on lab: Exercises	S+ Operations Command Gateway	S+ Operations stations diagnostic	Questions and Answers
Hands-on lab: Exercises		Hands-on lab: Exercises	S+ Operations historical report & scheduler	
			Hands-on lab: Exercises	

ABB
Power Generation Training
Email: IT-powergeneration.training@abb.com

8VZZ001385A Power Generation 1218