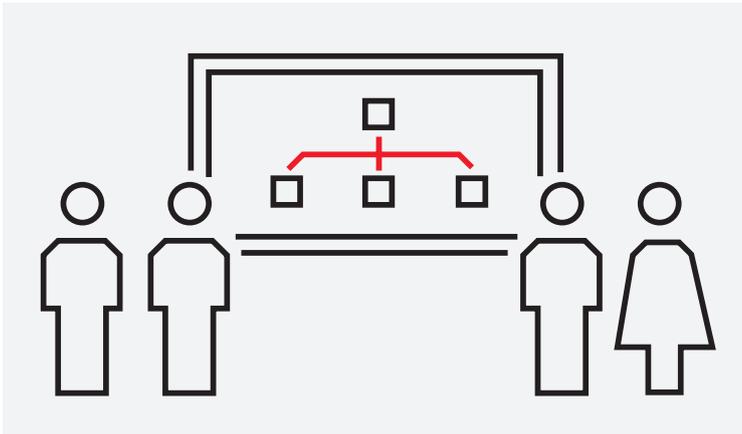


COURSE DESCRIPTION

S430

S+ Operations – SCADA application



The goal of this course is to learn how to design and configure S+ Operations HMI (Human Machine Interface) 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
- Install S+ Operations
- Configure security with user accounts
- Check and configure server redundancy
- Configure the operator workplace
- Configure time synchronization
- Configure and edit HMI database
- Configure process graphic displays and define navigation links
- Create graphic elements
- Manage and configure alarm and events
- Set up the historical data collection and configure trend displays
- Setup Web Client
- Configure third party communication with AC500/Universal Connect
- Understand S+ Operations support for PLC based store and forward functionality
- Configure Modbus TCP communication
- Configure IEC-60870-5-104 communication
- Configure OPC server and client
- Diagnose S+ Operations stations
- Configure historical reports and scheduler
- Execute project backup and restore
- Execute software and project upgrades

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

- S+ Operations system architecture
- Software installation
- Composer Operations
- User security
- Server redundancy
- Operator workplace
- Time synchronization
- Tag database
- Control faceplates, alarm and events, trend displays
- Process graphics
- S+ Operations Historian
- Web client
- SCADA communication protocols
- System diagnostics
- Backup and restore
- Software upgrade

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	User security	Operator workplace	OPC server and client	Modbus TCP
System architecture	Composer Operations	Time sync	AC500/Universal Connect	IEC-60870-5-104
System sizing	Server redundancy	HMI database	PLC store and forward	Hands-on lab: exercises
Installation	Hands-on lab: exercises	Hands-on lab: exercises	Hands-on lab: exercises	
Hands-on lab: exercises				
Day 6	Day 7	Day 8	Day 9	Day 10
Graphic displays	Historical data collection	Historical reports and scheduler	Diagnostics	Software and project upgrades
Graphic elements	Trend displays	Web client	Project backup and restore	Hands-on lab: exercises
Alarms and Events	Hands-on lab: exercises	Hands-on lab: exercises	Hands-on lab: exercises	Questions and answers
Hands-on lab: exercises				

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