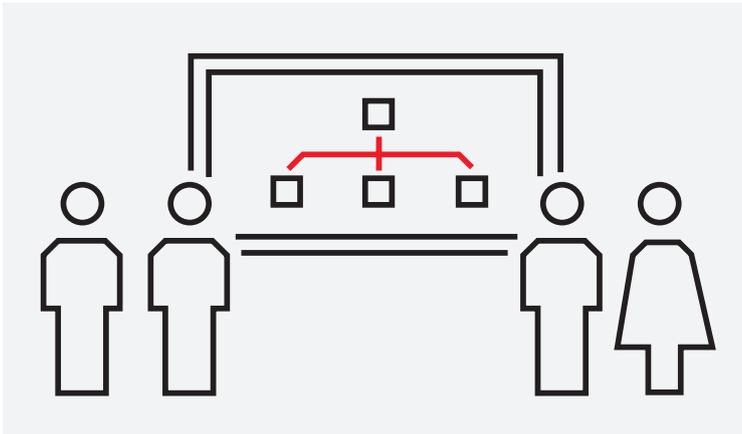


COURSE DESCRIPTION

S331

MR Series hardware configuration



The goal of this course is to become familiar with MR Series control and I/O hardware components and architecture and develop troubleshooting abilities using the MR Series diagnostic and fault finding tools.

Learning objectives

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

- Explain the MR Series system architecture and component functionality
- Handle the hardware
- Navigate in S+ Engineering environment
- Perform the commissioning of stations and modules
- Execute diagnostics and fault finding
- Measure and force signals and carry out parameter settings
- Carry out diagnostics of communication network

Participant profile

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

Prerequisites

Students shall have a basic knowledge of process control fundamentals. They should also have a basic understanding of Microsoft Windows operating systems.

Topics

- MR Series architecture
- Automation and communication networks
- System cubicles, earthing and shielding
- Controllers and I/O modules
- Assembly systems
- Front panel signaling
- Coupling Module CCC30/CCC30-2
- Cnet/Fnet Repeater CCR70
- Basics of S+ Engineering for Melody
- S+ Engineering for Melody workplace
- S+ Engineering for Melody Automation Functions
- Commissioning and loading of stations
- Simulation overview and history report
- Melody Analyzer
- Module fault analysis
- Hardware and software initialization
- Linking/unlinking and loading of modules
- Measuring, parametrization and forcing of signals

Course type and methods

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

Duration

4 1/2 days

Agenda

Day 1	Day 2	Day 3	Day 4	Day 5
Course overview	S+ Engineering for Melody workplace	I/O modules	Melody Analyzer tool	Module exchange
MR Series architecture	S+ Engineering for Melody Automation Functions	Measuring, simulation and parameters setting	Diagnostic of network communications	Module redundancy
MR Series communication networks	MR Series hardware	Simulation overview	Hardware and software initialization	Questions and answers
Assembly systems	Central modules			

ABB

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