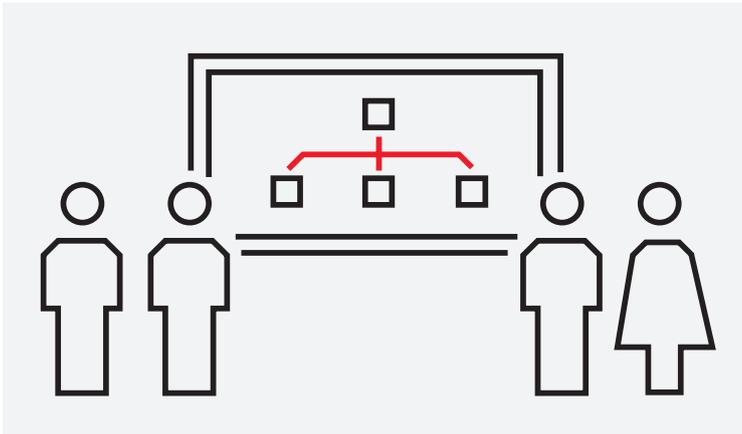# S313
S+ Engineering for Melody

The goal of this course is to learn how to configure a control project with MR Series, using S+ Engineering for Melody tool.

Learning objectives
Upon completion of this course, students will be able to:
- Explain the MR Series or HR Series system architecture and the function of the various components
- Use the main Operating and Monitoring function blocks
- Configure a S+ Engineering for Melody control project
- Navigate through S+ Engineering for Melody project
- Create a Process Point
- Create, edit, release and commission a Function Diagram
- Configure Binary Monitoring function
- Configure Analog Monitoring function
- Configure Individual Drive function
- Configure Closed Loop Control function
- Configure Sequential Function Chart (SFC)

Participant profile
This training is designed for system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

Prerequisites
Students shall know the fundamentals of working with Control Systems and have basic knowledge of current Microsoft Operating Systems and networking technologies.

Successful completion of the S331 course is required unless a prerequisite exemption is requested and granted by the instructor.

Topics
- S+ Engineering Melody control project
- Process Point
- Function Diagram
- Binary, Analog, Drive and Control functions
- Sequential Function Chart (SFC)
- Program, station and task assignment
- Global and local variables

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

Day 1	Day 2	Day 3	Day 4	Day 5
Course information	Basics of S+ Engineering for Melody control configuration	Configuration of analog monitoring functions	Configuration of closed-loop control functions	Configuration of sequential function charts
MR Series control based system architecture	Configuration of Process Points and Function Diagrams	Configuration of individual drive functions	Basics of sequential function charts	Questions and answers
Introduction to S+ Engineering for Melody	Configuration of binary monitoring functions			
Work with S+ Engineering for Melody workplace, basic settings and menus				