COURSE DESCRIPTION

S342
HR Series – Hardware configuration

The goal of this course is to familiarize students with the Symphony Plus Harmony Rack series system architecture and to recognize the various hardware components found in the Harmony Control Unit.

Learning objectives
Upon completion of this course, students will be able to:
- Plan an appropriate architecture for a Symphony Harmony system
- Interpret the layout of conventional ABB cabinet arrangements
- Establish data highway communication
- Configure and implement Harmony controllers and various I/O modules along with their support equipment
- Establish Harmony controller redundancy
- Create a Control Engineering project
- Recognize basic function codes
- Utilize Composer software tools for monitoring and diagnostics
- Configure Rack and SD I/O modules to communicate with Harmony Controllers
- Read the field input/output external connection drawings
- Perform on-line configuration

Prerequisites
Students should have a basic knowledge of process control and plant operations concepts. Basic knowledge and usage of applications running on a Windows based operating system is also recommended.

Topics
- Symphony Harmony System Architecture
- Symphony Harmony Communication
- Harmony Controllers
- Harmony Function Code Programming
- Control Engineering Projects
- HR and SD I/O Modules
- HR and SD I/O Configuration and Externals
- Online Configuration

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.

Participant profile
This training is targeted to students responsible for installation, maintenance, and process control implementation of the Symphony Harmony/INFI 90 System. It is also a prerequisite for anyone planning to attend the M202 or S312 course.

Duration
4 1/2 days
## Agenda

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