

COURSE NO. S312V

S+ Engineering for Harmony - On-Line Training

On-line course



About this course

This course utilizes the same courseware that was previously only available with an in-center classroom enrollment. It features a learning platform custom built by ABB University courseware developers, designed expressly to meet the needs of industrial automation users. A virtual machine with ABB controller simulation and system application software is provided for practice and completion of course labs. The in-center class requires a student to attend five days of training, plus travel time. By taking the on-line course, a student can remain on site, at home and save on travel costs.



24-7-365 Availability

Access courseware anytime, from anywhere, when it's most convenient for you.



Lifetime Access

This course and all your personal notes will remain available to you for life.



2 Weeks Virtual Machine

Access to cloud based virtual machine loaded with ABB controller and system software.

This course is for you if:

You are a system and application engineers, commissioning and maintenance personnel, service engineers, and system integrators.

The main topics that will be covered in this course:

- Harmony System architecture
- User Management
- Virtual PNI
- Harmony Controllers
- System Topology
- Harmony Function Code Programming
- I/O List Management
- System CLDs
- Configuration Logic Templates
- Tag Database

Enroll at:

mylearning-americas.abb.com

Or contact us:

Tel: 1 800 HELP 365, option 2, option 4

Email: abbuniversity@us.abb.com

You'll walk away with

01

An understanding of Harmony System architecture and the functions of different components.

02

The ability to load and navigate S+ Engineering Workbench and evaluate control loop and controller behavior.

03

Experience with S+ Engineering Project, System Topology tool, Harmony Controllers, and Control Logic Templates.

Prerequisites

Students should know the fundamentals of working with control systems, have basic knowledge of Windows and networking technologies, and have attended M111 or S311 courses. If you already attended the M202 course, consider US909 – S+ Engineering Transition course instead of S312.

Your success team

The learning platform includes a chat feature and user forum that allows you to send questions and comments to a learning facilitator and other students. Connect with fellow students to build a support network and collaborate with others.

Course Objectives

Upon completion of this course you will be able to:

- Review the Harmony System architecture and the function of the different components
- Load S+ Engineering Workbench
- Navigate in the S+ Engineering Workbench
- Setup the Virtual PNI
- Create a new control project
- User System Topology tool
- Configure and Inspect the Harmony controllers
- Create a Control Logic Document (CLD)
- Compile and load a config file to a Harmony Controller
- Load, save, and verify configuration files
- Use I/O List Management tool
- Utilize reports, trends, and live data to evaluate control loop and controller behavior
- Create User folders, Shapes and Macros for use in CLD environment
- Utilize System CLD files for I/O definition
- Setup a Control Logic Template (CLT)
- Create Project and console Tag list; export to an HSI

The key to maximum knowledge acquisition is hands-on practice.

ABB University on-line courses feature a virtual machine, hosted on ABB cloud servers. This virtual machine is loaded with the appropriate ABB controller simulation and system application software necessary to complete the on-line course labs, running on top of the Microsoft Windows operating system. This virtual machine is a safe way to practice knowledge learned from the on-line course without disruption to a working production system.