

COURSE NO. M202V

Composer Engineering Software Tools

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 responsible for DCS installation, maintenance, process control implementation, documentation and anyone planning to attend the Human System Interface (HSI) courses.

The main topics that will be covered in this course:

- Symphony/INFI 90 Open control system architecture
- Composer Automation Architect programming and documentation
- Harmony Function Code programming basics
- Symphony/INFI 90 Open system diagnostics and monitoring

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 Symphony/INFI 90 Open and Composer architecture.

02

The ability to connect, configure, compile, load, verify, monitor, tune and trend logic to controller.

03

Experience with user macros, shape folders, tag lists, control logic templates, and more tools.

Prerequisites

Students should have a basic knowledge of process control and operations concepts. Completion of either course M101, Process Control Unit- Rack I/O with WinTools, or M111, Harmony Control Unit – Rack I/O with Composer, is required unless special permission is granted by the instructor. Basic knowledge and usage of applications running on the Windows® operating system is also recommended.

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:

- Organize a Composer server/client networking architecture
- Create a project structure in the system architect window based upon a process control architecture
- Configure a Control Logic Document (CLD) using the automation architect tool of Composer
- Load the compiled configuration file to the controllers and perform an on-line configuration change
- Using monitor, trend, and inspect modes, evaluate control loop and controller characteristics by retrieving reports and monitoring values
- Create user folders in the project and utilize macros and shapes in the CLD's
- Understand the use of Control Logic Templates (CLT) in the creation of a control logic strategy
- Configure a tag list for a console (HSI) utilizing the Tag Synchronization tool with the CLD's

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.