

M202

Composer Engineering Software Tools



Learn the basic programming functions and features of Composer Automation Architect software.

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.

Student Profile

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

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.

Course objectives

Upon completion of this course the participants 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

Main topics

- 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

Duration

The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none">• Introductions• Symphony/INFI 90 Open overview• Composer architecture• Create a project•	<ul style="list-style-type: none">• Review: questions and answers• Connect to C-Net• Configure a CLD• Compile, load, and verify logic to controller• Monitor, tune and trend	<ul style="list-style-type: none">• Review: questions and answers• On-line configuration• Create user macro and shape folders	<ul style="list-style-type: none">• Review: questions and answers• System drawings• Control logic templates	<ul style="list-style-type: none">• Review: questions and answers• Tag list creation• Miscellaneous tools• Open lab

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