

M111

Harmony Rack I/O with Composer



Learn the INFI 90 Open/Symphony system architecture and Harmony Control Unit hardware. Create and monitor a process control strategy utilizing Composer software.

Course type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, and hands-on sessions and discussion.

Student Profile

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

Prerequisites

Students shall have a basic knowledge of process control fundamentals. They should also have a basic understanding of Microsoft Windows operating systems.

Course objectives

Upon completion of this course the participants will be able to:

- Incorporate Symphony/INFI 90 Open hardware into the process strategy
- Interpret conventional ABB cabinet arrangement drawings
- Recognize basic function codes
- Establish data highway communication

- Configure and implement Multi-Function Processor (MFP), Bridge Controller (BRC) and various I/O modules along with their support equipment
- Establish MFP/BRC redundancy
- Perform on-line configuration
- Read the field input/output external connection drawings

Main topics

- Symphony/INFI 90 Open control system architecture
- Symphony/INFI 90 Open control system data communication
- Harmony Function Code programming basics
- Symphony/INFI 90 Open control system diagnostics

Duration

The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none">• Course overview• Introductions• Symphony/INFI 90 Open overview• Symphony/INFI 90 Open loop communications• Symphony/INFI 90 Open node communications	<ul style="list-style-type: none">• Review: questions and answers• Harmony process controllers• Cabinet arrangement drawings• Introduction to Harmony Function Codes	<ul style="list-style-type: none">• Review: questions and answers• Composer project definition• Closed loop configuration• On-line configuration	<ul style="list-style-type: none">• Review: questions and answers• Harmony Rack I/O module hardware• Harmony Rack I/O module configuration	<ul style="list-style-type: none">• Review: questions and answers• Harmony Rack I/O module configuration• Open lab

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