Course Duration
The duration is 5 days.

Course Goal
The goal of this course is familiarize students with the various hardware components found in the Harmony Control Unit and to understand the Symphony/Infi90 Open® System Architecture.

Student Profile
This training is targeted to students responsible for DCS component selection, installation, maintenance, process control implementation and documentation. It is also a prerequisite for anyone planning to attend the M103 course.

Prerequisites and Recommendations
Students should have a basic knowledge of process control and operations concepts. Basic knowledge and usage of applications running on a Windows NT or 2000 operating system is also recommended.

Description
Students will learn about the features of the Symphony/Infi90 Open® control system and the Harmony Control Unit hardware components. Using a simple process control loop model as a base project, students will utilize WinTools software tools to create a process control strategy. “Hands-on” exercises provide the opportunity for monitoring, tuning, and diagnostics of the Harmony Control Unit with WinTools software.

Course Objectives
Upon completion of this course, students will be able to:
- Incorporate Symphony/Infi90 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/Infi90 Open® System Architecture
- Symphony/Infi90 Open® System Data Communication
- ABB Function Code Programming Basics
- Symphony/Infi90 Open® System Diagnostics
Course Calendar - M101 Harmony Rack I/O with WinTools

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