Course description

GB470
Maintenance & Composer Automation Architect

Course goal
The goal of the course is to provide students with the base knowledge to be able to configure and connect the hardware found in the I90 Process Control Unit. Use the Composer Engineering Workstation to set up, configure, load and troubleshoot a Harmony Controller and its associated I/O and tag list.

Learning objectives
Upon completion of this course, students will be able to:

- Explain the system architecture of a Harmony distributed control system
- Incorporate Harmony rack I/O hardware into the process
- Create a Composer project and build a project tree
- Create Configuration Logic Drawings (CLD’s) for a typical process and select, interpret and implement function codes appropriate to a given process application
- Use exception reports to report process data to operator consoles and other controllers
- Create global and user tag lists and export a console tag list
- Obtain controller status and problem reports and compile, load and monitor/tune controllers
- Carry out on-line configuration
- Use the controller executive functions to monitor and optimise controller performance.

Prerequisites
Students should have a basic knowledge of logic diagrams and how processes are controlled in order to gain maximum benefit from this course.

Topics
- Process Control Unit
- Harmony Rack I/O
- Module Replacement
- MFP/BRC Controllers
- Automation Architect
- Function Codes
- Tag Lists
- Composer Diagnostics and Administration

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 activities.

Duration
The duration is 5 days.

To enrol on-line visit:
www.abb.com/Abbuniversity/courses.aspx

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