

ABB UNIVERSITY COURSE DESCRIPTION

M211 Harmony Control Unit - S800 I/O with Composer



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

This training is targeted to anyone responsible for installation, start-up, and maintenance of Harmony with S800 I/O systems.

Prerequisites

Students should have taken either course M101, Process Control Unit – Rack I/O with WinTools, or M111, Harmony Control Unit – Rack I/O with Composer, or have equivalent knowledge with basic Harmony hardware. 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:

- Know what information is in the Harmony S800 and S800 I/O documentation, and where to find it
- Know the basic hardware layout including redundancy at all levels
- Describe the various components, supported I/O, communications, specifications, and constraints
- Explain the BRC100/BRC300 and IOR firmware compatibility

Learn to configure and troubleshoot Harmony with S800 I/O.

- Use proper procedures for flashing firmware
- Install and set up a complete system including MRC and S800
- Configure the appropriate function blocks for S800 I/O, including labeling operations to associate the module with the function block
- Analyze hardware status and troubleshoot using LEDS, Composer, and other tools

Main topics

- Documentation
- S800 I/O architecture
- · Hardware, firmware, software set-up
- Controller configuration
- Operation
- Troubleshooting

Duration

The duration is 5 days

Course Outline

| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
|--|---|--|---|--|
| IntroductionsDocumentation | Review: questions and answers | Review: questions and answers | Review: questions and answers | Review: questions/answers Hardware update BRC300/ |
| System components and architecture | Harmony hardware\$800 introduction | S800 modules and termination units | S800 harmony operationS800 harmony | BRC400, NIS21, ICT13 |
| Firmware/software requirements | S800 communications | S800 harmony configuration | troubleshooting | |

To register, contact the North America Customer Service Center or visit us online ABB Inc. +1 800 HELP 365 Option 2, Option 4

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