ABB UNIVERSITY COURSE DESCRIPTION

C235
Network Platform with QCS LAN

Learn to maintain the hardware and software of an NP1200 and/or NP800 Network Platform connected to a QCS LAN.

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 course is targeted to personnel responsible for maintaining a Network Platform QCS.

Prerequisites
Students should have a basic knowledge of personal computers, process control and electronics.

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

- Power-up the Network Platform and verify correct start-up
- Understand identification, function and set-up of the ASPC hardware
- Power-up the NP Service Workstation
- Use Configuration tool to create and/or modify the NP software
- Use the diagnostic tool to troubleshoot I/O problems
- Use the Update tool to install software updates, change IP address, etc.
- Perform scanner motor tuning
- Use standard procedures to standardize and check the sensors
- Use check samples to verify integrity of sensor measurements
- View a standardized history and a sample check history
- Put the Network Platform in scan mode and verify correct scanning and measurement profiles.
- Back-up and restore software
- Perform NP preventive and corrective maintenance
- Verify Frame set-up pages and profiles on QCS 800xA
- Understand the basic sensor theory and operation for the four core sensors – Basis Weight (STLK11), Moisture (HPIR-T), Caliper (GT) and Ash (STLXR3)

Duration
The duration of this course is 10 days.

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
am	am	am	am	am
	• ASPC Hardware • Electrical schematics • NP Service Workstation	• Review: Questions and answers • Platform Engineering Tools (PET)	• Review: Questions and answers • PET cont'd - Configuration tool - Update tool • Demo	• Review: Questions and answers • NP Documentation and Frame Specification review • NP800 Electromechanical overview
pm	pm	pm	pm	pm
• Health and Safety Awareness • Course introduction • Documentation overview • Network Platform overview	• NP Service Workstation • Labwork • Hardware identification and replacement • ASPC restart & verification • Frame tune and save	• PET continued • Labwork/demo • Diagnostic tool • Debug tool • Data Dictionary	• Labwork - Configuration tool and Update tool - Software update - IP address change - Restart, etc.	• NP800 continued • Frame and Sensor Alignment (NP1200 & NP800)

Day 6	Day 7	Day 8	Day 9	Day 10
am	am	am	am	am
• Network Platform Mechanical maintenance and demonstration	• Smart Weigt (cont'd) ASPC • Smart Ash sensor (STLXR3)	• HPIR-T Moisture sensor • HPIR-FW Fiber Weight sensor	• QCS 800xA – Demo - scanner operation - profiles - reports • Other sensors – Overview	• Final review • Exam • Course critique • Course ends
pm	pm	pm	pm	
• Mechanical Demo (cont'd) • Smart Weight Sensor (STLK11)	• Labwork – Basis Weight and Ash sensors	• Labwork – HPIR sensors • GT Caliper sensor • Labwork – GT sensor	• Other sensors (cont'd) • Sensor correlation overview	

Course Booking & Training Centers

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