

C232

Smart Platform with QCS LAN



Learn to maintain the hardware and software of an SP1200 and/or SP700 Smart 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 maintenance of a Smart Platform.

Prerequisites

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

Course objectives

Students learn to operate and maintain Smart Platform connected to an Industrial IT Quality Control System. Upon completion of this course, the students will be able to:

- Restart the Smart Platform and enter date and time
- Print the self-documentation
- Scan the Smart Platform
- Print software documentation
- Check power supply voltages using DVM and health pages
- Use AVOS to display/modify files
- Use the Object Inspector to display/modify objects
- Install a software update
- Perform platform tuning

- Use standard procedures to standardize and check the sensors
- Print a standardize history and a sample check history
- Use check samples to determine if a sensor is measuring correctly
- Start-up the work station and use the health reports to check sensors
- Back-up and restore software
- Maintain hardware, power supplies, process signals, and electronics
- Interpret Indicator LEDs and check switch positions
- Perform SP700 preventive and corrective maintenance
- Perform SP1200 preventive and corrective maintenance

Duration

The duration is 10 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
Course introduction	Review: questions and answers	Review: questions and answers	Review: questions and answers	Review: questions and answers
• System introduction	• Software overview	• /lib01 structure	• Frame tuning	• Build a software load
• Documentation overview	• AVOS commands	• BRAM structure	Lab	• Restore previous load
• Smart Platform overview	• Object inspector	• Installing a software change notice	• Frame tuning	• Restore BRAM
Lab	Lab	Lab		Lab
• Power supply checks	• AVOS commands	• Gstore		• Build a load
• Self documentation	• Inspect commands	• Installing an SCN		• Restore a previous load
• Back-up				

Day 6	Day 7	Day 8	Day 9	Day 10
Review: questions and answers	Review: questions and answers	Review: questions and answers	Review: questions and answers	Review: questions and answers
• Smart basis weight sensor	• Smart Platform mechanical maintenance	• IR Moisture sensor	• GT caliper sensor	• Color sensor overview
• Smart ash sensor	Lab	• Liquid Cooling Unit	Lab	• Review exam
Lab	• SP700 and SP1200 mechanical maintenance	• Optipak sensor	• GT caliper	• Course critique
• Basis weight		Lab		
• Ash		• IR moisture		
		• Optipak		

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