

C302

Maintaining an Industrial IT Quality Control System with AC800M Controllers



Learn to maintain the hardware and software of an Industrial IT Quality Control System with Process Portal A and AC800M process controller.

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 technicians responsible for first echelon maintenance of Industrial IT quality control.

Prerequisites

Students should have some basic knowledge of personal computers, process control, and electronics. Students should first attend course T314, Basic Configuration for 800xA, or have equivalent experience.

Upon completion of this course, the student should attend the course C232, Smart Platform, to also learn frame maintenance.

Course objectives

Upon completion of this course the participants will be able to:

- Scan the Smart Platform frame
- Make a grade change to a different grade of paper
- Put control in auto, change setpoints, force manual outputs

- Select and control PID loops using the video pages
- Run standardize and sample check procedures on the sensors
- Print and interpret standardize and sample check reports for each sensor
- Correlate sensor readings and adjust for the grade of paper
- Test the TCP/IP network, and the QC LAN
- Use the OPC Inspector to test data flow
- Restart the controller, the operator station, and the frame
- Restore and back-up software
- Modify a grade of paper using video pages
- Set up a log configuration and trend display
- Start up the service work station and use health reports to check frame and sensors
- Maintain controller hardware
- Use Smart Profiler work station to check Smart Profilers

Main Topics

- Operate IT Process Portal A
- AC800M process controller
- Smart Platform and Smart Profilers
- Service work station

Duration

The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none">• Course introduction• System introduction training system• Screen navigation• Grade change• L2 mode change• Scanner operation• Lab<ul style="list-style-type: none">- System familiarization operations	<ul style="list-style-type: none">• System 800xA fundamentals• Aspects/objects• Plant explorer layout• QC workplace• Controller hardware• Control Builder• Lab<ul style="list-style-type: none">- Remove and replace hardware modules- Test power supplies- Test I/O signals- Inspect programs	<ul style="list-style-type: none">• QC grade setup• Log configuration and trending• Reel report history maintenance• Lab<ul style="list-style-type: none">- Grade date- Trend setup- Report history maintenance	<ul style="list-style-type: none">• Standardize• Sample check• Calibrate sample• SP health reports• Troubleshooting• Lab<ul style="list-style-type: none">- Sensor procedures- Network troubleshooting- System status	<ul style="list-style-type: none">• Frame software back-up and restore• System 800xA import/export• System 800xA back-up• Norton ghost back-up• Lab<ul style="list-style-type: none">- System back-up- Service work station

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