

COURSE NO. C302V

Maintaining an IndustrialIT Quality Control System with AC800M Controllers

On-line course



About this course

This is a self-paced course employing the same courseware previously only available with an in-center class. It features a learning platform custom built by ABB University courseware developers, designed expressly to meet the needs of industrial automation users.

- Learn fundamental maintenance principles for a Quality Control System with System 800xA Process Portal A and AC800M.
- Provides a foundation for the Network Platform with QCS LAN course (C235).
- Ideal for anyone who needs to provide maintenance service for an ABB Quality Control System.
- In-center class is five days of training, plus travel time. By taking the on-line course, a student can remain on site and at home.



24-7-365 availability

Access courseware anytime, from anywhere, when it's most convenient for you.



Lifetime access

This course and all your personal notes will remain available to you for life.



2 weeks virtual machine

Access to cloud based virtual machine loaded with ABB controller and system software.

This course is for:

Technicians responsible for first echelon maintenance of an ABB Quality Control System. Prerequisite course T314 'ABB Ability System 800xA basic configuration' should be completed first, and students should have basic experience with

electronics, personal computers and process controls.

Main topics

- Operate IT Process Portal A
- AC800M process controller
- Service work station

Enroll at:

mylearning-americas.abb.com

Or contact us:

Tel: 1 800 HELP 365, option 2, option 4

Email: abbuniversity@us.abb.com

You'll walk away with

1 An understanding of maintaining System 800xA software and AC800M controller hardware within the context of an ABB Quality Control System.

2 Ability to modify a grade of paper using video pages and make a grade change to a different grade of paper.

3 Experience running and interpreting standardize and sample check reports for each sensor, correlating sensor readings and adjusting appropriately for the grade of paper.

Your success team

The learning platform includes a chat feature and user forum that allows you to send questions and comments to a learning facilitator and other students. Connect with fellow students to build a support network and collaborate with others.

Course objectives

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

- Scan platform utilizing simulation
- 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

Key to maximum knowledge acquisition is hands-on practice.

ABB University on-line courses feature a virtual machine, hosted on ABB cloud servers. This virtual machine is loaded with the appropriate ABB controller simulation and system application software necessary to complete the on-line course labs, running on top of the Microsoft Windows operating system. This virtual machine is a safe way to practice knowledge learned from the on-line course without disruption to a working production system.