

ABB UNIVERSITY COURSE DESCRIPTION

C311

QCS Sensor Correlation



Learn the fundamentals and prepare for certification of sensor correlation for the ABB QCS sensors.

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 Field Service personnel who are responsible for maintenance of a Network Platform QCS system.

Prerequisites

Students should have attended the C232 Smart Platform with QCS LAN course, C235 Network Platform with QCS LAN, or have extensive experience working with the Smart Platform or Network Platform QCS system.

Course objectives

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

- Ensure the sensors are ready for correlation
- Calculate the expected sensor minus laboratory results of correlation efforts, including existing procedures
- Analyze the application and choose the correct method for each sensor
- Implement and refine the procedure for each correlation

- Perform standard correlation tests
- Analyze initial results and provide control charts for ongoing correlation results
- Investigate failure of correlation results to fall within action limits
- Calculate new grade code variables based on correlation results
- Support ongoing correlation with SPC style methods

Main Topics

- Sensor Preparation
- Use of Electronic Worksheets
- · Basic Correlation Techniques
- Laboratory Procedures
- Individual Sensor Correlation Techniques

Duration

The duration is 5 days

Course Outline				
Day 1	Day 2	Day 3	Day 4	Day 5
Course Introduction	Sensor Preparation Lab Part	Expected Deviation	 Moisture 	• Color
• Correlation Introduction	1	• Lab	 Caliper 	 Effects on Correlation
 Documentation 	 Worksheets 	 Correlation Methods 	• Ash	 Cross Machine profile
• Preparation for correlation	Graphing	 Laboratory Procedure 	 Optipak 	correlation
Short and Long term stability	· Sensor Preparation Lab	Basis Weight	• Gloss	 Final Exam
 Base Calibration 	 Slope and Offset 			 Course Critique