ABB UNIVERSITY COURSE DESCRIPTION

C317
QCS Optical Caliper Sensor Maintenance

Learn the theory, application, maintenance and troubleshooting for the Optical Caliper Sensor and to prepare the student for certification for this sensor.

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

Prerequisites
Students should have attended the C235 Network Platform with QCS LAN, or have extensive experience working with the Smart Platform or Network Platform QCS system. ABB Students are encouraged to bring their ABB supplied laptop to class.

Course objectives
Upon completion of this course the participants will be able to:
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- Understand the theory of operation of the Optical Caliper sensor
- Setup and Alignment of sensors in Network Platform
- Determine the appropriate applications for the Optical Caliper Sensor.
- Recalibration of the Optical Caliper Sensor
- Troubleshoot typical problems with the Optical Caliper sensor
- Tuning of the Optical Caliper Sensor for scanner deviations
- Make proper adjustments to the sensors for specific applications
- Calculate new grade code variables based on correlation results

Main topics
- Sensor Theory
- Sensor Mechanical Operation
- Sensor Electrical Operation
- Alignment and Setup
- Calibration
- Troubleshooting

Duration
The duration is 3 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
• Course Introduction • Scanner Alignment • Scanner Lab	• Optical Caliper Sensor Theory • Optical Caliper Sensor Lab • Optical Caliper Sensor Tuning Theory	• Optical Caliper Sensor Tuning Lab • Optical Caliper Exam	• HPIR-T Sensor Theory	• HPIR-T Sensor Lab • HPIR-T Exam • Course Evaluation

To register, contact the North America Customer Service Center or visit us online
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