Learn I/O, display properties, and configurations for the ABB Continuous Emissions Monitoring System (CEMS).

Course type and methods
This is an instructor led workshop with short presentations and demonstrations, extended exercises, and hands-on sessions and discussion. Approximately 35% of the course is hands-on lab activities.

Student Profile
This course is targeted to service and maintenance engineers and technicians.

Prerequisites
This is an entry level course that is designed for personnel new to this system as well as individuals needing refresher training.

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

– Maintain the analyzer system for optimal performance

Use functional blocks to be able to configure the CEM system
– Calibrate the CGA analyzer
– Interpret analyzer readings for desired system performance
– Interpret status messages and alarms to help identify system conditions
– Disassemble and reassemble system hardware
– Understand the SMT, TCT, and HMI software packages

Main Topics
– Troubleshooting system module problems
– System module configuration and configuration changes
– Monitor and control of system I/O
– Cleaning, maintaining, and servicing analyzer system
– Calibration procedures

Course duration
The duration is 3 days.
### Course outline

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<th>Day 1</th>
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| - Introduction  
- Documentation  
- Operators manual  
- Housing designs and components  
- Software operations and menu tree | - Function block programming analyzer modules and detector theory  
- Sample system basics  
- Maintenance and testing process | - Calibration procedures  
- Additional software; HMI, SMT and TCT  
- Lab |

Lab  
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Lab

To register contact the North America Customer Service Center or visit our website.

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