ABB CGA/CEMS Analyzer Advance Training Synopsis
Course type and Goal

This is an instructor led course with interactive class room discussions, presentations, and practical exercises.

This course will cover theory and operation of CEMS (Continuous Emission Monitoring Systems), IR & UV Photometers, Oxygen measurement, AND TCD.

This course provides knowledge of the functional capabilities of an emission monitoring system with ABB CGA analyzers URAS, Limas, O2 electro chemical cell, Magnos, Caldos.

Learning Objective

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

- Understand Status & Error messages and take required corrective actions
- Use ECT software
- Install / remove analyzer hardware components
- Identify parts that need replacements based on status and error messages
- Issues related to validating analyzers

Prerequisite

Students attending this course should have basic knowledge of gas analysis and emission monitoring system

Course Duration

The duration is 2 days
Day 1

- Agenda and Introduction of emission monitoring system
- Identifying analyzer status
- Drift and Absolute drift
- Sharing QR code for remote support
- EL SERIES – identifying internal parts and assemblies and functionality
- CANBUS error
- IR photo meter Uras 26 – major components and life times
- Basic calibration
- ECT software usage

Day 2

- Identifying analyzer status
- Drift and Absolute drift
- Sharing QR code for remote support
- EL Series – identifying internal parts and assemblies and functionality
- EL 3000 system design and functionality.
- CANBUS error
- Basic calibration
- ECT software usage
- General idea about sample systems associated with CGA / CEMS
- Understanding EDL and intensities

- O2 Measurement with Electro chemical cell & Magnos 206 - Measuring principle, hardware components, analyzer design & calibration
- Caldos - Measuring principle, hardware components, analyzer design & calibration
- CEMS Regular Maintenance & trouble shooting

**Training Terms & Conditions**

- Training session accommodates minimum 6 to maximum 8 students per class
- Comprehensive colored printed training material are included at no extra charge

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