



Global Analyzer Systems

CONTINUOUS EMISSIONS MONITORING SYSTEMS

TRAINING PROGRAMS

Global Analyzer Systems is a leading provider of Continuous Emissions Monitoring Systems (CEMS) solutions, offering customized training programs designed to help organizations achieve compliance, optimize system performance, and enhance technical expertise. Our training courses cover all aspects of CEMS operations, maintenance, and regulatory compliance, ensuring personnel are well-equipped to manage and maintain their CEMS effectively.

Global Analyzer Systems provides comprehensive CEMS training solutions tailored to industry and regulatory standards. Each course can be adapted to address the unique operational and compliance needs of our clients.

OUR OFFERINGS

CEMS Basics and Methodologies (1 hour)

Objective: Provide foundational understanding of CEMS, including principles, methodologies, and applications.

Key Topics:

- CEMS Basics, Methodologies, and Principles of Application
- Dilution & Extractive Sampling System Theory of Operation

DAS Training (2 hours)

Objective: Provide comprehensive training on the Data Acquisition System (DAS) and HMI interface.

Key Topics:

- Theory of Operation
- Fundamentals of the Data Acquisition System (DAS)
- Overview of HMI (Section-by-section walkthrough)
- Using HMI for Maintenance & Troubleshooting (Manual CAL, Data Review)
- Overview of DAS Network and Hardware
- Emissions Calculations and Parameter Review
- DCS and DAS Communication Checks
- DataStream Training

DELIVERY OPTIONS

- **On-Site Training:** Conducted at the client's facility for hands-on experience with their specific CEMS equipment.
- **Virtual Training:** Delivered through an interactive online platform for remote participants.
- **In-Person Training** (at Global Office in Calgary): Instructor-led sessions with hands-on demonstrations.

CUSTOMIZE YOUR TRAINING

- Training content can be customized based on facility operations, regulatory jurisdiction, or the technical background of participants.
- To facilitate accurate and efficient training, clients are encouraged to provide relevant documents in advance, such as:
 - Facility Permits
 - QAP Documentation
 - Preventative Maintenance Procedures
 - Audit Findings
 - Blank Operational Forms
- Post-training technical support is also available upon request.

Bringing Certainty To Air Emissions Measurement.

CEMS Operations and Maintenance Training (4 hours)

Objective: In-depth overview of CEMS theory, routine operations, and maintenance procedures. Training can be tailored to emphasize operations or maintenance as needed.

Key Topics:

- CEMS Dilution Theory & Extractive Sampling
- Maintenance Procedures:
 - Routine Checks & Preventative Maintenance
 - Semi-Annual Flow Monitor Drift Checks (DP/T)
 - Analyzer Maintenance and Upstack Filter Replacement
 - Cylinder Gas Audits (Linearity Checks)
 - QAP Paperwork Review (Facility QAP required in advance):
 - Daily Sign-Offs
 - Preventative Maintenance Forms
 - Corrective Action Reports
 - Routine Check Sheets
 - Drift Check Documentation

CEMS Regulatory Reporting Training (3 hours)

Objective: Train participants on regulatory reporting, naming conventions, data submission, and AMD form completion.

Key Topics:

- Regulatory Document Overview:
 - EPEA Approval, Chapter 9 AMD, CEMS User Manual V3
- Reporting Requirements:
 - Naming Conventions, Submission Guidelines
 - CEMS Electronic MDF Reporting
- Source Operations Impact:
 - Mode Codes, Comment Codes, Valid Hours
 - Performance Evaluation Coding (Qualifier 8, Missing Data Generation)
 - Overview of Methods 1–5
- AMD Forms (walkthrough)
- IAM Reporting Overview (Monthly & Annual)

CEMS Regulatory Compliance Training (3 hours): Alberta CEMS Code

Key Topics:

- Overview of Applicable Regulatory Documents:
 - Approvals, CEMS Code, AMD
- Quality Assurance Plans and Regulatory Requirements:
 - CEMS Code 2021 Overview
 - Facility-Specific QAP Review (If Provided)
 - Requirements: Calibration, Maintenance, Performance Testing
- Documentation and Reporting Methods
- Audit Preparation Guidance

CEMS Regulatory Compliance Training (3 hours): EPS/PG/7 Code

Key Topics:

- Permit Review
- EPS/PG/7 Code and QAP Walkthrough:
 - Section-by-Section Review of the QAP (If Provided)
 - Certification Testing (Operational Test Period)
- Data and Emissions Reporting:
 - Trend Analysis
 - Contravention Handling
 - Emissions Determination Methodologies

Investing in CEMS training ensures regulatory compliance, operational efficiency, and staff expertise. Global Analyzer Systems is committed to delivering expert-led training that meets your facility's technical and compliance needs.

To schedule your training or request more information, please contact sales@gasl.ca.

