MERCURY

Mercury Analysis Training

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Introduction:

This course is designed to refresh analysts on instrument operation, software, and sample analysis as well as to provide new information and techniques to get the most out of your analyzer and improve sample analysis precision, accuracy, and efficiency. Solutions to common problems will be presented as well as strategies to deal with any unique challenges experienced in your lab.

The PS Analytical range of mercury continuous emissions monitors CEMs is designed to handle all types of industrial and research applications. This CEM is based course which allows the participants to understand the systems and its customization to specific user requirements. Through this course we aim for the participants to fully grasp CEMs three broad categories summarized as general purpose, dedicated monitoring or compact instruments.

Targeted Competencies:

- Overview of the Analytical Methods Used
- Analyzer Familiarization and Maintenance
- Analyzer Calibration
- Analyzing Sorbent Traps
- Analyzing High-Level Samples Using Profiles
- Special Techniques for Analyzing Low-Level Samples

Targeted Groups:

- Petrochemical Engineers
- Chemical Engineers
- Consulting Engineers
- Engineering Managers
- Maintenance Engineers/Technicians
- Project Engineers
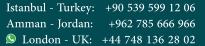- Process Control Engineers

Course Content:

Unit 1: Mercury Analyzers

Unit 2: Mercury Testing Rules Using Sorbent Traps

Unit 3: Mercury CEM

Unit 4: Probes and Sample Conditioners

Unit 5: The Probes

- PSA 50.125 Inertial Dilution Probe
- The PSA 50.104 Fast Track Sample Dilution Probe

Unit 6: Sample conditioners

- The PSA S123C200 Speciation Conditioner
- PSA S123C300 Conditioner for Total Mercury Measurement

Unit 7: Conditioning Probes

- The PSA S123P100 Dilution Probe for Total Mercury Measurement
- The PSA S123P200 Dilution Probe with Speciation