

€ TRAINING

Mercury Analysis DMA 80 Evo





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Introduction:

The training program is designed to provide participants with comprehensive knowledge and practical skills for operating and maintaining DMA-80 Evo mercury analyzers. Through it, participants will gain expertise in ensuring accurate and reliable mercury measurements, essential for environmental monitoring, research, and regulatory compliance.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the principles of mercury analysis and its significance in various applications.
- Gain proficiency in operating DMA-80 Evo mercury analyzers.
- Learn method validation procedures and quality control measures.
- Develop skills in troubleshooting and maintaining DMA-80 Evo instruments.
- Ensure compliance with regulatory standards and best practices in mercury analysis.

Target Audience:

- Laboratory technicians and analysts specializing in environmental testing.
- Researchers and scientists involved in mercury analysis and monitoring.
- Quality control personnel in industries requiring mercury analysis.
- Environmental consultants and regulatory compliance officers.
- Professionals seeking to enhance their expertise in mercury measurement techniques.

Program Outline:

Unit 1:

Introduction to Mercury Analysis:

- Importance of Mercury Analysis in Environmental Monitoring.
- Sources and Health Effects of Mercury Contamination.

- Regulatory Requirements for Mercury Monitoring.
- Overview of DMA-80 Evo Mercury Analyzer Technology.
- Environmental and Industrial Applications of Mercury Analysis.

Unit 2:

Operating DMA-80 Evo Mercury Analyzers:

- Instrument Components and Functions.
- Sample Preparation Techniques.
- Calibration and Standardization Procedures.
- Running Routine Analyses.
- Data Interpretation and Reporting.

Unit 3:

Method Validation and Quality Control:

- Method Validation Protocols.
- Accuracy, Precision, and Linearity Testing.
- Calibration Curve Construction and Verification.
- Quality Assurance and Quality Control Measures.
- Documentation and Record-Keeping Practices.

Unit 4:

Maintenance and Troubleshooting:

- Routine Maintenance Tasks.
- Instrument Cleaning and Storage Practices.
- Common Issues and Troubleshooting Strategies.
- Calibration Verification and Performance Checks.
- Emergency Procedures and Instrument Recovery.

Unit 5:

Applications and Case Studies:

- Case Studies in Environmental Mercury Analysis.
- Steps for Mercury Analysis in Industrial and Occupational Settings.
- Emerging Trends and Technologies in Mercury Monitoring.
- Best Practices for Data Integrity and Compliance.
- Future Directions in Mercury Analysis Techniques.