MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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REFINERY LABORATORY METHODS, PROCEDURES, AND QUALITY CONTROL BEST PRACTICES

"Ensuring Laboratory Excellence and Quality Control in Refinery Operations"

Schedule

Date	Venue	Fees (Online)
10 – 11 Jun 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Accurate laboratory testing and quality control are essential to refinery operations, ensuring product compliance, process efficiency, and safety. This course equips participants with practical knowledge and best practices in refinery laboratory methods, procedures, and quality control processes. Attendees will gain insight into analytical techniques, standard operating procedures, and quality management systems that underpin effective refinery laboratory operations.

Through interactive online sessions, case studies, and exercises, participants will learn to implement laboratory protocols, ensure data integrity, and maintain compliance with industry standards. The course emphasizes practical strategies to optimize laboratory operations, improve accuracy, and enhance the overall quality management framework within refinery environments.

Objectives

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

- Understand essential refinery laboratory methods and procedures.
- Apply best practices for quality control and analytical testing.
- Maintain compliance with industry and regulatory standards.
- Optimize laboratory operations for accuracy, efficiency, and reliability.
- Ensure data integrity and proper documentation of laboratory results.
- Implement continuous improvement in refinery laboratory quality management.

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Why Attend

Participants should attend this course to:

- Gain practical knowledge of refinery laboratory methods and procedures.
- Learn best practices in quality control and analytical testing.
- Improve laboratory accuracy, efficiency, and reliability.
- Ensure compliance with refinery and regulatory standards.
- Enhance overall operational quality and performance in refinery labs.

Target Audience

This program is designed for:

- Laboratory supervisors and analysts in refineries
- Quality control and quality assurance professionals
- Process engineers and technical staff
- Compliance and regulatory personnel
- Professionals responsible for laboratory management and refinery operations

Individual Benefits

Key competencies that will be developed include:

- Understanding refinery laboratory techniques and procedures
- Applying quality control best practices in laboratory testing
- Ensuring accuracy and reliability of analytical results
- Maintaining compliance with regulatory and industry standards
- Implementing improvements to optimize laboratory operations

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced laboratory performance and operational reliability
- Improved product quality and compliance with standards
- Reduced laboratory errors and operational inefficiencies
- Stronger quality control systems and documentation practices
- Continuous improvement in laboratory management and refinery operations

Instructional Methodology

The course follows a blended online learning approach combining theory with practical application:

- Strategy Briefings – Overview of refinery laboratory methods and quality control principles
- Case Studies – Real-world examples of laboratory best practices and quality management
- Workshops – Exercises on procedures, testing methods, and data validation
- Peer Exchange – Discussions on challenges, solutions, and lessons learned in laboratory operations
- Tools – Templates and checklists for quality control, standard operating procedures, and documentation

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Online Breaks: 11:00 & 03:00

Day 1: Fundamentals of Refinery Laboratory Operations

Module 1: Laboratory Methods and Procedures (09:00 – 11:00)

- Overview of refinery laboratory functions and techniques
- Standard operating procedures and safety considerations
- Analytical methods and instrumentation

Module 2: Quality Control Principles (11:15 – 01:00)

- Introduction to quality control systems
- Data accuracy, validation, and documentation
- Common challenges and corrective actions

Day 2: Best Practices and Continuous Improvement

Module 3: Laboratory Optimization and Data Integrity (01:45 – 03:00)

- Optimizing laboratory workflow and procedures
- Ensuring accurate and reliable test results
- Maintaining regulatory compliance

Module 4: Case Studies and Action Planning (03:15 – 05:00)

- Examples of successful quality control practices
- Lessons learned and practical recommendations
- Developing action plans for continuous improvement

Certification

Participants will receive a Certificate of Completion in Refinery Laboratory Methods, Procedures, and Quality Control Best Practices, validating their expertise in refinery laboratory operations, quality control, and best practices for data accuracy and compliance.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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