MAWA EVENTS

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

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WATER & ENVIRONMENTAL LABORATORY- QUALITY ASSURANCE AND QUALITY CONTROL

"Ensuring reliability and accuracy in laboratory testing through effective QA/QC practices"

Schedule

Date	Venue	Fees (Online)
06 – 07 May 2026	Online	USD 700 per delegate

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

Introduction

Quality Assurance (QA) and Quality Control (QC) are fundamental for ensuring the accuracy, reliability, and credibility of laboratory testing in water and environmental analysis. Proper QA/QC implementation supports regulatory compliance, public health protection, and environmental safety.

This 2-day intensive training provides participants with practical knowledge and techniques to implement robust QA/QC practices in water and environmental laboratories. Through hands-on exercises, case studies, and workshops, participants will learn how to maintain data integrity, validate methods, and monitor laboratory performance effectively.

Objectives

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

- Understand the principles and importance of QA/QC in laboratory analysis
- Apply standard QA/QC procedures to laboratory operations
- Validate analytical methods and ensure measurement reliability
- Maintain proper documentation and traceability of results
- Implement corrective and preventive actions for non-conformance
- Enhance overall laboratory performance and compliance

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Why Attend

- Gain practical skills in QA/QC implementation for water and environmental labs
- Improve accuracy, reliability, and credibility of laboratory results
- Strengthen compliance with ISO and regulatory standards
- Learn effective techniques for documentation and data integrity
- Enhance professional knowledge and lab performance

Target Audience

This program is designed for:

- Laboratory analysts and technicians
- Environmental and water quality officers
- HSE and compliance professionals
- Laboratory managers and supervisors
- Quality assurance and quality control staff
- Environmental engineers and chemists

Individual Benefits

Key competencies that will be developed include:

- Ability to implement QA/QC procedures effectively
- Improved accuracy and reliability of lab results
- Knowledge of proper documentation, traceability, and reporting
- Skills to identify and correct non-conformances
- Enhanced confidence in laboratory operations and quality management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Higher reliability and credibility of laboratory results
- Improved compliance with QA/QC standards and regulations
- Reduced risk of errors and non-conformities
- Strengthened laboratory performance and credibility
- Effective quality management practices and continuous improvement

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – QA/QC principles and laboratory standards
- Case Studies – Real-life QA/QC challenges and solutions
- Workshops – Hands-on exercises for QA/QC procedures and documentation
- Peer Exchange – Discussions on best practices and lessons learned
- Tools – QA/QC checklists, templates, and reporting forms

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks included

Day 1: Fundamentals of QA/QC in Laboratory Analysis

Module 1: Introduction to QA/QC Concepts (09:00 – 10:30)

- Principles and importance of QA/QC
- Role in laboratory testing and compliance

Module 2: Laboratory Documentation and Traceability (10:45 – 12:15)

- Record-keeping and reporting standards
- Ensuring traceability and data integrity

Module 3: Method Validation and Verification (01:00 – 02:15)

- Standard operating procedures (SOPs)
- Ensuring reliability of analytical methods

Module 4: Workshop – QA/QC Practical Exercise (02:30 – 03:30)

- Hands-on QA/QC exercises for laboratory samples

Day 2: Quality Control Techniques and Continuous Improvement

Module 1: Quality Control Procedures (09:00 – 10:30)

- Internal QC checks
- Proficiency testing and calibration

Module 2: Corrective and Preventive Actions (10:45 – 12:15)

- Identifying and correcting non-conformances
- Implementing preventive measures

Module 3: Monitoring Laboratory Performance (01:00 – 02:15)

- Tracking QA/QC indicators
- Continuous improvement strategies

Module 4: Workshop – QA/QC Implementation Plan (02:30 – 03:30)

- Developing actionable QA/QC plans
- Group discussion and review

Certification

Participants will receive a Certificate of Completion in Water & Environmental Laboratory - Quality Assurance and Quality Control, validating their knowledge and practical competence in implementing QA/QC practices in laboratory operations.

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.

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