MAWA EVENTS

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

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WATER & ENVIRONMENTAL LABORATORY ANALYSIS - QUALITY ASSURANCE AND QUALITY CONTROL

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

Schedule

Date	Venue	Fees (Online)
11 – 12 May 2026	Online	USD 700 per delegate

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

Introduction

Accurate laboratory testing is critical for water and environmental management, regulatory compliance, and public health protection. Implementing robust Quality Assurance (QA) and Quality Control (QC) practices ensures reliability, reproducibility, and credibility of laboratory results.

This 2-day intensive training provides participants with comprehensive knowledge and practical techniques for QA/QC in water and environmental laboratories. The course emphasizes method validation, standard procedures, documentation, and data integrity to enhance laboratory performance and compliance with international standards.

Objectives

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

- Understand the principles of Quality Assurance (QA) and Quality Control (QC)
- Implement QA/QC procedures in laboratory testing
- Conduct method validation and verification
- Ensure reliability and accuracy of test results
- Maintain proper documentation and traceability
- Apply corrective and preventive actions for non-conformance
- Enhance overall laboratory performance and compliance

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Why Attend

- Learn best practices in QA/QC for water and environmental testing
- Improve accuracy, reliability, and credibility of laboratory results
- Enhance compliance with ISO and regulatory standards
- Strengthen documentation, reporting, and traceability
- Apply practical techniques and case studies for immediate improvement
- Enhance professional competence in laboratory quality management

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 control and assurance staff
- Environmental engineers and chemists

Individual Benefits

Key competencies that will be developed include:

- Proficiency in QA/QC techniques and standards
- Improved accuracy and reliability of laboratory results
- Knowledge of documentation, traceability, and reporting procedures
- Ability to implement corrective and preventive actions
- Enhanced professional confidence in laboratory operations

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced laboratory performance and data reliability
- Improved compliance with regulatory and ISO standards
- Reduced risk of errors and non-conformities
- Stronger credibility and confidence in laboratory results
- Effective quality management and continuous improvement practices

Instructional Methodology

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

- Strategy Briefings – Fundamentals of QA/QC principles and laboratory standards
- Case Studies – Real-world laboratory 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
- 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 exercises in laboratory QA/QC

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 non-conformities
- Implementing corrective measures

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

- Monitoring lab performance metrics
- Continuous improvement strategies

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

- Developing practical QA/QC action plans
- Group discussion and review

Certification

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

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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