MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

INTERNAL AND EXTERNAL QUALITY CONTROL: BEST PRACTICES

"Ensuring Accurate and Reliable Laboratory Results Through Quality Control"

Schedule

Date	Venue	Fees (Online)
21 – 22 Dec 2026	Online	USD 700 per delegate

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

Introduction

Quality control is a critical component of laboratory operations, ensuring the accuracy, reliability, and compliance of test results. This 2-day online training provides participants with comprehensive knowledge of internal and external quality control practices, helping laboratories maintain high standards, reduce errors, and meet regulatory requirements.

Participants will engage in practical exercises, case studies, and interactive discussions focused on real-world quality control challenges. The program equips laboratory professionals with the skills to implement effective quality control strategies, enhance analytical performance, and maintain confidence in laboratory results.

Objectives

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

- Understand the principles and types of internal and external quality control.
- Implement best practices for QC in laboratory settings.
- Analyze and interpret QC data to identify trends and errors.
- Ensure compliance with national and international regulatory standards.
- Improve laboratory reliability, accuracy, and operational efficiency.

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Why Attend

- Gain practical knowledge of effective quality control practices.
- Enhance accuracy and reliability of laboratory results.
- Learn to identify and troubleshoot common QC issues.
- Improve compliance with regulatory and industry standards.
- Network and share best practices with laboratory professionals.

Target Audience

This program is designed for:

- Laboratory managers and supervisors
- Quality assurance and quality control professionals
- Clinical, pharmaceutical, and industrial laboratory staff
- Regulatory compliance officers
- Technical personnel involved in laboratory testing and analysis

Individual Benefits

Key competencies that will be developed include:

- Mastery of internal and external QC principles and methods
- Ability to monitor and assess laboratory performance effectively
- Skills to identify trends, errors, and corrective actions
- Proficiency in implementing compliance-driven QC strategies
- Enhanced problem-solving and analytical capabilities for laboratory work

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved laboratory accuracy, reliability, and compliance
- Reduced operational errors and risk of non-conformance
- Strengthened confidence in analytical and testing results
- Enhanced capability to implement robust QC systems
- Overall improvement in laboratory operational standards

Instructional Methodology

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

- Strategy Briefings – Overview of QC principles, standards, and frameworks
- Case Studies – Real-world examples of internal and external QC implementation
- Workshops – Hands-on exercises to analyze QC data and apply best practices
- Peer Exchange – Group discussions on laboratory challenges and solutions
- Tools – Templates and checklists for QC monitoring, reporting, and compliance

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Internal Quality Control

Module 1: Introduction to Internal QC (07:30 – 09:30)

- Principles and importance of internal QC
- Types of internal QC procedures
- Common QC errors and their impact

Module 2: QC Data Analysis (09:45 – 11:15)

- Monitoring trends and identifying deviations
- Statistical tools and performance charts
- Corrective and preventive actions

Module 3: QC Implementation (11:30 – 01:00)

- Best practices for laboratory QC programs
- Documenting and reporting results
- Compliance with laboratory standards

Module 4: Workshop and Exercises (02:00 – 03:30)

- Practical exercises analyzing QC data
- Interactive discussion and problem-solving

Day 2: External Quality Control and Advanced Practices

Module 1: Introduction to External QC (07:30 – 09:30)

- Overview of external QC programs and proficiency testing
- Benefits and regulatory requirements
- Key considerations for laboratory participation

Module 2: Data Interpretation and Evaluation (09:45 – 11:15)

- Evaluating external QC results
- Identifying trends, errors, and corrective measures
- Integrating findings into internal QC processes

Module 3: Advanced QC Best Practices (11:30 – 01:00)

- Harmonizing internal and external QC approaches
- Ensuring continuous improvement and compliance
- Risk-based QC strategies for operational efficiency

Module 4: Workshop and Q&A (02:00 – 03:30)

- Hands-on exercises with internal and external QC data
- Group discussion, practical insights, and feedback

Certification

Participants will receive a Certificate of Completion in Internal and External Quality Control – Best Practices, validating their expertise in laboratory quality control, data analysis, and compliance with industry standards.

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Why Choose MAWA Events

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