

ANALYTICAL QUALITY CONTROL STRATEGIES YOU CAN TRUST

“Reliable Analytical QC Methods for Accuracy, Compliance, and Confidence”

Schedule

Date	Venue	Duration	Fees (Online)
18 - 19 May 2026	Online	2 Days	USD 700 per delegate
20 May 2026	Online	1 Day	USD 450 per delegate

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

Introduction

Effective analytical quality control (QC) is vital for ensuring product integrity, regulatory compliance, and operational excellence. This intensive 2-day online training provides participants with practical strategies and tools to strengthen analytical QC processes, reduce errors, and enhance reliability in testing and measurement.

The course covers quality control principles, analytical methods, risk-based approaches, data validation, and regulatory expectations. Through case studies, workshops, and interactive discussions, participants will develop the skills needed to implement robust QC practices, ensure accuracy, and maintain compliance across laboratory and production environments.

Objectives

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

- Understand principles and frameworks of analytical quality control
- Apply risk-based approaches to QC processes
- Implement robust data validation and verification methods
- Identify and mitigate sources of analytical errors
- Ensure compliance with regulatory and industry standards
- Optimize QC strategies for laboratory and production environments

Why Attend

- Learn practical, trustable QC strategies for analytical processes
- Improve accuracy, reliability, and efficiency in testing
- Enhance compliance with regulatory and industry standards
- Reduce risk of analytical errors and deviations
- Gain actionable insights for process optimization

Target Audience

This program is designed for:

- Quality control and quality assurance professionals
- Laboratory managers and analysts
- Compliance and regulatory officers
- Production and process engineers
- Professionals responsible for testing, measurement, and validation

Individual Benefits

Key competencies that will be developed include:

- Knowledge of analytical quality control principles and best practices
- Skills in risk-based QC approaches and error mitigation
- Competence in data validation, verification, and reporting
- Ability to ensure regulatory compliance and industry standards
- Improved decision-making in laboratory and production QC
- Enhanced professional credibility in quality management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved accuracy and reliability in analytical QC processes
- Strengthened compliance with regulatory and industry standards
- Reduced errors, deviations, and operational risks
- Optimized quality control strategies for efficiency and effectiveness
- Enhanced organizational reputation for product integrity
- Increased confidence in laboratory and production results

Instructional Methodology

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

- Strategy Briefings – Analytical QC principles and regulatory frameworks
- Case Studies – Real-world examples of QC challenges and solutions
- Workshops – Practical exercises in data validation, verification, and error mitigation
- Peer Exchange – Group discussions on best practices and lessons learned
- Tools – Templates, checklists, and procedural guides for QC implementation

Course Outline

Detailed Course Outline

Training Hours: 7:30 AM – 3:30 PM

Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: Foundations of Analytical Quality Control

Module 1: Fundamentals of Analytical Quality Control (07:30 – 09:30)

- Importance of analytical QC in laboratory operations
- Key quality concepts: accuracy, precision, repeatability, reproducibility

Module 2: Analytical Errors and Variability (09:45 – 11:15)

- Common sources of analytical errors
- Systematic vs random errors

Module 3: Regulatory Expectations & Data Integrity (11:30 – 01:00)

- QC requirements from international standards and regulators
- Ensuring data integrity, traceability, and documentation

Module 4: Workshop – QC Strategy Development (02:00 – 03:30)

- Building practical QC strategies
- Case discussions and lessons learned

Day 2: Advanced QC Strategies & Continuous Improvement (2-Day Program Only)

Module 1: QC Tools and Performance Monitoring (07:30 – 09:30)

- Control charts, trend analysis, and system suitability
- Monitoring analytical performance

Module 2: Preventive & Corrective Actions (09:45 – 11:15)

- Root cause analysis of QC failures
- CAPA implementation and effectiveness

Module 3: Risk-Based QC and Continuous Improvement (11:30 – 01:00)

- Risk assessment in analytical QC
- Continuous improvement frameworks

Module 4: Workshop – Trusted QC in Practice (02:00 – 03:30)

- Real-life scenarios and group exercises
- Course wrap-up and Q&A

Certification

Participants will receive a Certificate of Completion in Analytical Quality Control Strategies, validating their expertise in implementing reliable, accurate, and compliant QC processes to ensure product integrity and operational excellence.

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