

VALIDATING ANALYTICAL METHODS: STEP-BY-STEP TECHNIQUES FOR QUALITY CONTROL

“Ensuring Accuracy and Compliance through Robust Analytical Method Validation”

Schedule

Date	Venue	Fees (Online)
09 - 10 Jun 2026	Online	USD 700 per delegate

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

Introduction

Accurate and reliable analytical methods are essential for quality control in laboratory and industrial environments. This course provides participants with practical, step-by-step techniques for validating analytical methods, ensuring that laboratory results are accurate, reproducible, and compliant with regulatory standards. Attendees will gain hands-on guidance on method validation, documentation, and implementation processes to enhance quality control practices.

Through interactive online sessions, case studies, and exercises, participants will develop the skills to systematically validate analytical methods, assess method performance, and ensure compliance with international guidelines. The course emphasizes practical tools and techniques for maintaining high-quality laboratory outputs and supporting overall organizational quality objectives.

Objectives

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

- Understand the principles and importance of analytical method validation.
- Apply step-by-step procedures for validating laboratory methods.
- Evaluate method performance through accuracy, precision, and reproducibility testing.
- Maintain compliance with international quality standards and regulatory guidelines.
- Implement corrective actions to address method deficiencies.
- Document and communicate validation results effectively.

Why Attend

Participants should attend this course to:

- Gain practical knowledge of method validation techniques for quality control.
- Ensure accuracy, reliability, and reproducibility of laboratory results.
- Comply with international regulatory and quality standards.
- Enhance laboratory efficiency and performance.
- Apply best practices to strengthen quality control programs.

Target Audience

This program is designed for:

- Laboratory analysts and supervisors
- Quality control and quality assurance professionals
- R&D scientists and process engineers
- Regulatory compliance officers
- Professionals responsible for laboratory methods and quality assurance

Individual Benefits

Key competencies that will be developed include:

- Conducting step-by-step analytical method validation
- Assessing method accuracy, precision, and reproducibility
- Maintaining compliance with regulatory and quality standards
- Documenting and reporting validation outcomes effectively
- Identifying and addressing potential method deficiencies

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced quality control and laboratory reliability
- Reduced errors and inconsistencies in analytical testing
- Compliance with international and industry standards
- Improved operational efficiency and decision-making
- Strengthened confidence in laboratory outputs and reporting

Instructional Methodology

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

- Strategy Briefings – Overview of method validation principles and quality control guidelines
- Case Studies – Real-world examples of analytical method validation and best practices
- Workshops – Hands-on exercises for validating methods and evaluating performance
- Peer Exchange – Group discussions on challenges, lessons learned, and practical solutions
- Tools – Templates for method validation plans, performance assessment, and documentation

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: Principles and Planning of Method Validation

Module 1: Introduction to Analytical Method Validation (09:00 – 11:00)

- Importance of validation in quality control
- Regulatory and industry standards
- Planning and preparation for method validation

Module 2: Method Performance Assessment (11:15 – 01:00)

- Accuracy, precision, linearity, and reproducibility
- Evaluating method sensitivity and specificity
- Identifying potential sources of error

Day 2: Implementation and Continuous Improvement

Module 3: Hands-On Validation Techniques (01:45 – 03:00)

- Step-by-step execution of validation procedures
- Data analysis and interpretation
- Corrective actions for method deficiencies

Module 4: Documentation, Reporting, and Best Practices (03:15 – 05:00)

- Recording validation results and reports
- Ensuring compliance with regulatory guidelines
- Continuous improvement and lessons learned

Certification

Participants will receive a Certificate of Completion in Validating Analytical Methods: Step-by-Step Techniques for Quality Control, validating their expertise in analytical method validation, quality control, and compliance with regulatory standards.

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