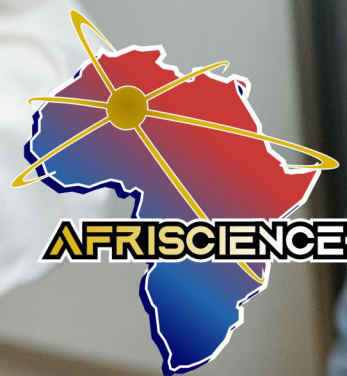


Introduction to Method Validation



Who Should Attend?

This workshop is intended for participants who desire to understand the key terminology and components required to validate a modified standard or laboratory-developed method.

Organizational Level

-Directors, Managers, and Supervisors

GOALS: Understand the approval requirements for validating methods, fitness-for-use, and verification prior to introducing the methods into production

-R&D and Production Scientists, and Laboratory Technicians

GOALS: Explain the different attributes and requirements to validate a method



Course Overview

This course is designed for participants desiring to understand the terminology, principles, and criteria for validating methods. Participants will also learn the historical background and importance of method validation, differences between quality control and quality assurance, and their unique impacts on method validation. The differences between method validation and method verification will be highlighted and explained as these terms relate to the correct implementation of ISO/IEC 17025, ISO 17034, and, in some instances, ISO/IEC 17043. The emphasis behind this revision of the course is the focus of EURACHEM's The Fitness for Purpose of Analytical Methods: A Laboratory Guide to Method Validation and Related Topics. Participants will learn key documentary requirements and be introduced to the mathematical and statistical computations using a provided Microsoft Excel workbook template to validate chemical and microbiological methods.

Prerequisites

Required: This is a mathematics and statistics-based course. Familiarity with basic MATH and STATISTICAL functions and understanding the order of math operations (PEMDAS).
Desired: Participants should have bench experience applying analytical methods in a chemistry and/or microbiology laboratory environment and familiar with the requirements for method validation per the appropriate quality system standards employed in their laboratories, e.g., ISO/IEC 17025, ISO 17034, or ISO/IEC 17043. To evaluate and validate modified national or international methods or laboratory-developed methods, participants are encouraged to participate in the following courses:

Equipment Needed

DURATION: 2 July 2026
VENUE : Online
COST : USD495.00pp

REGISTER NOW

Switchboard: +27 (68 633 8497
Email: afriscience@afriscience.co.za

Attendance by two or more representatives of your compensation committee or organization will foster teamwork and enhance the program's impact

Learning Outcomes

After the successful completion of the workshop, participants will be able to, with a provided Excel workbook and instructor/class chosen measurement method:

- Determine “Fit for Intended Use” of a test method
- Recognize the components of a method validation and write a validation plan
- Establish the required performance, acceptance criteria of the method
- Describe the difference between method validation and method verification
- Determine the performance characteristics that should be verified or validated
- Establish criteria for experimental design and acceptance
- Using the supplied Excel [™] workbook and data set, estimate values for validation performance characteristics
- Discuss how method validation utilizes target measurement uncertainty and decision limits, and decision rules with defined probabilities, and
- Write a validation report

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