



**MiChem Dynamics**  
LEADING CHANGE

## **CHEMISTRY METHOD VERIFICATION (SECONDARY VALIDATION) AND UNCERTAINTY OF MEASUREMENT (BASED ON TR26-03) PRACTICAL TRAINING**

This tailored in-house course is designed to provide participants with a comprehensive understanding of method verification (secondary validation) and uncertainty of measurement in accordance with ISO/IEC 17025:2017 and additional accreditation requirements in a Chemistry testing laboratory.

Method verification, a critical process ensuring the appropriateness of analytical procedures for specific tests, will be explored in depth.

The course integrates theoretical knowledge with practical application by demonstrating the verification of methods currently employed within your laboratory. Practical sessions encompass key aspects such as theory application, sample spiking, quality control, statistical result evaluation, and the reporting of verification data, all aligned with SANAS TR26 requirements.

The goal is to empower participants with the knowledge and skills necessary for ensuring the quality, reliability, and consistency of analytical results in accordance with best practices and accreditation standards.



**THE COURSE WILL RUN OVER A PERIOD OF 3 - 5 DAYS**  
(DEPENDENT ON METHODS CHOSEN FOR PRACTICAL DEMONSTRATION)

### **LEARNING OUTCOMES:**

- Understand the underlying theoretical structure of method verification (secondary validation) and uncertainty of measurement.
- Practically perform method verification and determine the uncertainty of measurement in compliance with ISO/IEC 17025:2017 and SANAS TR26 accreditation requirements.

### **WHO SHOULD ATTEND THIS COURSE:**

- Laboratory / Quality managers
- Analysts / technicians
- Technical signatories
- Anyone involved in method development in a chemistry laboratory

### **MINIMUM ENTRY REQUIREMENTS:**

- Fluency in English writing and reading skills

### **TUITION:**

- Training material included (English)
- Certificate of attendance or competence (based on outcome of assessment) will be issued on successful completion of training.

### **COURSE OVERVIEW:**

#### **DAY 1**

- Theory:
  - Introduction to method validation and verification
  - Method verification documents

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- Verification parameter: Accuracy
- Verification parameter: Bias
- Verification parameter: Precision (repeatability and reproducibility)
- Verification parameter: Linearity
- Verification parameter: Working range
- Verification parameter: Limit of Detection (LOD)
- Verification parameter: Limit of Quantification (LOQ)
- Verification parameter: Selectivity / Sensitivity
- Verification parameter: Robustness / Ruggedness
- Uncertainty of measurement

## DAY 2

- Practical demonstration in the laboratory

## DAY 3-5:

- Practical demonstration in the laboratory continues
- Statistical result evaluation
- Reporting of method verification and uncertainty of measurement data

