



STATISTICAL METHOD VALIDATION

SMLTSA ACCREDITED WITH LEVEL 1: 12 CEU's

25th – 27th September 2024

COURSE OUTLINE

ISO 17025:2017 was developed with the objective of promoting confidence in the operation of laboratories. The standard contains requirements for laboratories to enable them to demonstrate their competency to generate valid results. Method validation is a key requirement of ISO17025 and ISO 15189 accreditation standards and other regulations and directives. Method validation is the process that provides evidence that a test method is capable of producing results that are suitable for a particular application. The course aims to provide attendees with a fundamental understanding of the importance of method validation, the methodology for conducting method validation and the evaluation of method performance characteristics using appropriate statistical tools.

COURSE OUTCOMES

- Provide a deep understanding of the importance of method validation in testing laboratories
- Provide the tools and methodology for conducting method validation
- Expose delegates to practical examples of method validation reinforcing the theoretical concepts delivered during the course
- Provide delegates with the skills and knowledge to perform their own validations
- Enable participants to meet the accreditation requirements of their testing laboratories

The course is designed and recommended for individuals responsible for quality and the technical activities in testing laboratories and anyone seeking to develop their understanding of method validation in testing laboratories. The following individuals are recommended:

- Laboratory Managers
- Laboratory Quality Managers
- Laboratory Supervisors
- Laboratory Technicians and Chemists
- Internal Auditors

COURSE CONTENT

MODULE 1: INTRODUCTION TO METHOD VALIDATION

- Definitions
- Validation versus verification
- When to validate analytical methods
- Importance of method validation

MODULE 2: INTRODUCTION TO STATISTICS-DESCRIPTION STATISTICS

MODULE 3: SIGNIFICANCE TESTING-THE T-TEST

MODULE 4: SIGNIFICANCE TESTING-THE F-TEST

MODULE 5: ANALYSIS OF VARIANCE

MODULE 6: VALIDATION PROTOCOL

MODULE 7: PERFORMANCE PARAMETERS AND THEIR ESTIMATION

- 7.1 Precision-different precision parameters
- 7.2 Bias
- 7.3 Ruggedness
- 7.4 Selectivity, LOD, LOQ
- 7.5 Linearity and working range

MODULE 8: INTRODUCTION TO MEASUREMENT UNCERTAINTY

MODULE 9: METHOD VALIDATION REPORT

BOOKING & REGISTRATION

STATISTICAL METHOD VALIDATION

25th – 27th September 2024 – ONLINE

COMPLETE THE FORM TO RESERVE YOUR PLACE AND EMAIL IT TO admin@libertypro.co.za or call +27 74 218 6757

	Fee per delegate each excl Vat
ONLINE	R6999
PUBLIC	
IN-HOUSE	From 7+ delegates

DELEGATE DETAILS

DELEGATE NAME:		DELEGATE NAME:	
DESIGNATION:		DESIGNATION:	
EMAIL:		EMAIL:	
DELEGATE NAME:		DELEGATE NAME:	
DESIGNATION:		DESIGNATION:	
EMAIL:		EMAIL:	

COMPANY DETAILS

COMPANY NAME:	
PHYSICAL ADDRESS:	
BUSINESS POSTAL ADDRESS:	
POSTAL CODE:	
TEL NUMBER:	

PAYMENTS

Please email a copy of the bank transfer or deposit slip payments.
Account details:

BANK: **STANDARD BANK**
ACCOUNT NAME: **LIBERTY PRO**
ACCOUNT NUMBER: **10193466919**
BRANCH: **JOHANNESBURG**
BRANCH CODE: **051001**
SWIFT CODE: **SBZA ZA JJ**

AUTHORISATION

Signatory must be authorized to sign on behalf of contracting organization.

NAME: _____

POSITION: _____

SIGNATURE: _____

EMAIL: _____

DATE: / /

TERMS AND CONDITIONS

CANCELLATIONS: By completing this registration form, the client hereby agrees that **LIBERTY PRO** will not be able to mitigate its losses for any less than 50% of the total contract value. Cancellations must be received in writing three weeks prior to the event. Only cancellation made in writing and addressed for the attention of the Chief Financial Officer will be recognized by **LIBERTY PRO**. Cash alternatives will not be offered although delegate substitutions are welcome any time. Thereafter, the full workshop fee is payable. If for any reason **LIBERTY PRO** decides to amend this workshop, we are not responsible for covering airfare, hotel or other costs incurred by registrants. In the event that **LIBERTY PRO** cancels the event, **LIBERTY PRO** reserves the right to transfer this booking to another workshop to be held in the following six months, or to provide a credit of an equivalent amount to another workshop in the same sector within the following six months.

INDEMNITY: should for any reason outside the control of **LIBERTY PRO** the venue or speakers change, or the event be canceled due to act of any terrorism, extreme weather conditions, industrial action **LIBERTY PRO** shall endeavor to reschedule but the client hereby indemnifies and holds **LIBERTY PRO** harmless from any costs, damages, and expenses including attorney fees, which are incurred by the client. The construction validity and performance of this Agreement shall be governed in all respects by the laws of Republic of South Africa to the exclusive jurisdiction of whose courts the parties hereby agree to submit.

PAYMENTS ARE REQUIRED WITHIN 5 DAYS OF INVOICE

Please note: All public course fees include lunch, refreshments (non-alcoholic) and conference/workshop documentation. FEES DO NOT INCLUDE ACCOMMODATION, AIRFARE OR TRANSFERS. Delegates should make arrangements well in advance and may call us should they require assistance on making such bookings.