

"Excellent Service – Excellent Delivery"



ISO 17025 & LABORATORY INFORMATION MANAGEMENT SYSTEMS (LIMS) FOR ANALYTICAL LABORATORIES

Satisfying the Traceability Requirements of ISO17025 through LIMS

20-22 August 2025
Southern Sun Hotel
Sandton
Johannesburg

ISO 17025 & LABORATORY INFORMATION MANAGEMENT SYSTEMS (LIMS) FOR ANALYTICAL LABORATORIES

Satisfying the Traceability Requirements of ISO17025 through LIMS

WHY CHOOSE THIS TRAINING COURSE?

This comprehensive training course will illustrate the ISO17025 requirements for testing laboratories, relevant to the operation of their management system, technical competency, validity of analytical results, and the use of Laboratory Information Management Systems (LIMS) as a tool in satisfying the above. In particular, the importance of LIMS implementation in meeting the traceability requirements of ISO 17025 will be addressed.

The training course will also demonstrate the compliance of ISO 17025 with those ISO 9001 and GLP (Good Laboratory Practice) requirements that are relevant to the scope of testing services. In addition, Management and Technical personnel of analytical laboratories will recognize the dire need of implementation of the Standard within their Organization in order to satisfy the needs of their customers and general market needs (e.g. Regulatory Authorities and organizations providing recognition).

This training course will feature:

- Management requirements of ISO 17025 Quality manual, Document control, Tenders, Suppliers, Service to the customer, Internal audits
- Technical requirements of ISO 17025 Personnel, Equipment, Traceability, Reference standards, Sampling, Quality assurance of results, Test Certificates, O & I's
- Definition of Laboratory accreditation: Accreditation Bodies (AB's) and Multilateral Agreements (MLA, MRA, ILAC) on cross frontier recognition of accreditation
- Basic guidelines on the design of a LIMS
- Implementation of a LIMS, in the context of ISO 17025

WHO IS THIS TRAINING COURSE FOR?

This training course is suitable for a wide range of professionals involved in Quality Assurance (QA) in analytical laboratories, but will greatly benefit:

- Management and technical personnel of analytical laboratories, in a wide spectrum of activities (e.g. oil refinery, food and utility industries including potable and wastewater treatment plants, and commercial analytical laboratories)
- Technicians, Specialists and other personnel involved in laboratories
- Those laboratories that are in the process of obtaining ISO 17025 accreditation and those planning to implement a LIMS
- Newly recruited laboratory scientific personnel
- Laboratory accreditation consultants

WHAT ARE THE GOALS?

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

- Understand and implement Good Laboratory Practice (GLP) in their organizations
- Comprehend the importance of assuring quality of test and calibration results
- Apply traceability from sample receipt and analysis scheduling until delivery of results, through the implementation of LIMS
- Design LIMS on the basis of ISO 17025 requirements
- Realize the need for continuous review and improvement of LIMS systems, based on market and regulatory requirements



HOW WILL THIS TRAINING COURSE BE PRESENTED?

Due to its high degree of technical content, this training course will examine ISO17025 requirements and implementation of LIMS with a combination of learning strategies. It will involve both a guided as well as a complex response approach. Role playing will be applied alongside mentoring. Discussions will be instigated, especially during each session's wrap up.

THE COURSE CONTENT

Day One: Determination of Course Goals & Introduction to ISO 17025 Requirements

- ISO 17025 contents
- Organization – Responsibilities
- Introduction to control of documents & records – Use of LIMS for managing records
- Requests for tenders
- Suppliers/Subcontractors – Detailed record keeping through LIMS
- LIMS design – Basic considerations

Service to the Customer & Internal Audits as a Tool for Quality Assurance

- Service to the customer - Complaints
- Control of non-conforming work/testing
- Corrective/Preventive actions – Implementation & Monitoring of corrective actions
- Control of records
- Internal auditing as a tool for addressing complaints & implementing a proactive strategy
- Management review

Day Two: Technical Requirements – Personnel and Test Method Development

- Technical records – LIMS as a unique traceability tool
- Personnel (scientific, technical, administrative)
- Accommodation & Environmental conditions
- Test methods & Method validation. Estimation of uncertainty of measurement
- Selection of methods – Laboratory-developed methods, Non-standard methods
- Control of data for all of above topics – Use of LIMS as a data recording tool

Technical Requirements – Equipment and Quality Assurance

- Measurement traceability through LIMS
- Equipment – Measurement traceability, Reference standards & Reference materials
- Sampling – Handling of test items & The role of LIMS as the first link in the sample traceability chain (from sample login to issue of Test Certificate)
- In-house testing & subcontracted analysis. Issuing of relevant working forms using the LIMS
- Quality Assurance (QA) of test results & Ways of reporting the test results – The LIMS contribution to assuring traceability of QA and Analytical data

Day Three: Technical Requirements – Test Reports, Implementation of LIMS & Accreditation Requirements

- Format of Test Certificates & Amendments of Test Certificates – Use of LIMS for issuing Test Certificates and keeping track of changes
- Opinions & Interpretations (O&I's) on Test Certificates
- Electronic transmission of results – LIMS contribution to assist in speedy, targeted and foolproof delivery of results
- Preparation & Application for accreditation
- Role playing – Internal/External audits exercise

THE CERTIFICATE

Luthando Skills & Training Certificate of Completion for delegates who attend and complete the training course

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| DATE | TIME | FEES |
|-------------------|---------|----------|
| 20-22 August 2025 | Sandton | R 10,999 |
| | | |
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REGISTER NOW

**This fee is inclusive of Documentation, Lunch and Refreshments*

**Complete & send by fax/mail to address given below.
PLEASE USE BLOCK CAPITALS.**

REGISTRATION DETAILS

FAMILY NAME: _____

FIRST NAME: _____

POSITION: _____

COMPANY: _____

MAILING ADDRESS: _____

TELEPHONE: _____

MOBILE: _____

FAX: _____

EMAIL: _____

AUTHORISATION

AUTHORISE BY: _____

POSITION: _____

EMAIL: _____

TELEPHONE: _____

FAX: _____

POSTAL ADDRESS: _____

MODE OF PAYMENT

☐ Please invoice my company

☐ Please invoice me

HOTEL ACCOMMODATION

Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue. Please make your request for accommodation at least 3 weeks prior to the commencement of the course.

EVENT DISCLAIMER

We reserve the right to cancel or postpone a seminar or related event, change venue, substitution of the Instructor and alter the course content at our sole discretion. If this occurs, our responsibility is limited to a refund of any registration fee(s) already paid. We are not responsible for airline tickets, hotels costs, other tickets or payments, or any similar fee penalties or related or unrelated losses, costs and/or expenses registrant may incur or have incurred as a result of any trip cancellations or changes.

CANCELLATION & SUBSTITUTION

You must notify the Registrar of cancellations at least 2 weeks before a scheduled seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a 50% handling charge for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

WAYS TO REGISTER

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