

Training Title

Laboratory Quality, Accreditation and Good Lab Practice (GLP/GMP) Aspect of ISO 17025 Certificate

Training Duration

5 days

Training Venue and Dates

Laboratory Quality, Accreditation and Good Lab Practice (GLP/GMP) Aspect of ISO 17025 Certificate	5	02-06 May	\$3,750	Abu Dhabi
Laboratory Quality, Accreditation and Good Lab Practice (GLP/GMP) Aspect of ISO 17025 Certificate	5	07-11 November	\$3,300	Abu Dhabi

Will be held at any of the 5 star hotels (Exact venue will be informed soon)

Training Fees

- 3300 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING OVERVIEW

TRAINING DESCRIPTION

The quality management of the laboratory according to an international standard is very important to enhance the laboratory system and laboratory environment. Laboratories use ISO 17025 to implement a quality system aimed at improving their ability to consistently produce valid results. A careful analysis of tasks and working with safety conditions will lead to redesign of the working environment that will enhance worker performance. How to be an international accredited laboratory should be the main strategy plan.

OBJECTIVES



1. Understand the laboratory quality requirements and appreciate the need for a quality system according to the International Standards Organization ISO 17025.
2. Understand the significance of calibration methods and traceability.
3. Identify the factors which have to be considered when choosing an analysis method.
4. Understand how to validate analytical technique.
5. Use international Guide to Lab Quality by accreditation standard methods.
6. Recognize the characteristics of a laboratory environment which can affect the performance of instruments and hence influence the validity of measurements.
7. Use a standard safety work in the laboratory.

WHO SHOULD ATTEND

The course is designed for people who implement, maintain and review laboratory quality systems. It is suitable for all laboratory staff including managers, quality assurance officers, lab technicians, chemists, chemical engineers and instrument engineers.

DAILY OUTLINE

- DAY 1**
- LAB QUALITY MANAGEMENT REQUIREMENTS ISO 17025
 - Organization
 - Quality system
 - Document control
 - Review of contracts
 - Subcontracting
 - Purchasing
 - Service to the client
 - Complaints
 - Control of non-conforming work
 - Improvement
 - Corrective actions
 - Preventive actions
 - Control of quality records
 - Internal audits
 - Management review
 - LAB QUALITY TECHNICAL REQUIREMENTS ISO 17025
 - Personnel
 - Accommodation
 - Test methods and validation

Equipment
Measurement traceability
Sampling
Test items
Quality control
Reports / calibration certificates

DAY 2 • **QUALITY IN THE CHEMISTRY LABORATORY**

Introduction to Quality Assurance
Selecting of the Method
Selecting Equipment and Consumables
Making Measurements and Reporting
Quality Systems in Chemical Laboratories

• **QUANTITATIVE METHOD**

Calibration Using External and Internal Standards
Instrumental Graph-Interpolated Method
Product-Moment Correlation Coefficient
Determination of Analyte Concentration
Standard Addition-Extrapolated Method
Detection Limit
Confidence Limit
Outliers Test

DAY 3 • **CALIBRATION AND PERFORMANCE CHECK OF THE INSTRUMENT**

• **VALIDATION OF ANALYTICAL METHODS**

Specificity
Selectivity
Precision
Repeatability
Intermediate precision
Reproducibility
Accuracy
Trueness
Bias
Linearity
Range
Limit of detection

Limit of quantitation

Robustness

Ruggedness

DAY 4 • **INTERNATIONAL GUIDE TO LAB ACCREDITATION**

Staff

Routine and Non-Routine Analysis

Environment

Equipment

Reagents

Reference Material

Sampling

Quality Control

Calibration Intervals and Performance Checks

DAY 5 • **SAFE WORK PRACTICES IN THE LAB**

- **QUESTIONS AND DISCUSSION**

- **Group Discussions, Last Day Review and Certificate distribution.**

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