BASIC LABORATORY TECHNIQUES IN A CHEMISTRY LABORATORY TRAINING

This course aims to give an understanding of the basic laboratory techniques followed in a Chemistry laboratory in compliance with ISO/IEC 17025 and additional accreditation requirements.

THE COURSE WILL RUN OVER A PERIOD OF 3 DAYS

ON COMPLETING THIS COURSE, THE PARTICIPANT WILL BE ABLE TO:

• Understand the basic analytical technique of methods operated in own laboratory (from sample receipt to reporting of final results).
• Understand the handling, function, use and disposal of equipment, glassware, chemicals and reagents specific to methods operated in own laboratory.
• Compile a risk assessment to ensure laboratory safety.
• Understand the basic requirements of ISO/IEC 17025 (introduction only).

WHO SHOULD ATTEND THIS COURSE:

• Managers/ supervisors
• Analysts/ technicians
• Students

COURSE CONTENT:

1. AN INTRODUCTION TO THE LABORATORY QUALITY SYSTEM ACCORDING TO ISO/IEC 17025 (GLP)
2. AN INTRODUCTION TO CHEMISTRY TESTING
3. BASIC ANALYTICAL TECHNIQUE OF METHODS INCLUDING:
   • Sample receipt and storage
   • Weighing practices
   • Correct use of all equipment and glassware presented in each method
   • Preparation and storage of media, chemicals, etc
   • Environmental conditions
   • Quality control technique
   • Dilutions
   • Interpretation of results
   • Reporting of results
4. LABORATORY SAFETY (DEVELOP RISK ASSESSMENT)
5. HOUSE KEEPING
6. SUMMATIVE ASSESSMENT (TEST)