



Chemical Laboratory Technician Training Course

28 Mar - 01 Apr 2027
Manama (Bahrain)



Chemical Laboratory Technician Training Course

Ref.: 15968_1000464 **Date:** 28 Mar - 01 Apr 2027 **Location:** Manama (Bahrain) **Fees:** 5500 Euro

Introduction to Chemical Laboratory Technician Training:

The Chemical Laboratory Technician training course imparts the skills and knowledge needed to succeed in chemical analysis and laboratory operations. It focuses on crucial topics such as laboratory safety protocols, chemical analysis techniques, equipment handling, quality control procedures, and data interpretation.

Participants will gain hands-on experience with cutting-edge laboratory instruments and cultivate the critical thinking skills needed to tackle complex chemical challenges. Whether they are launching a career or expanding their current expertise, this Chemical Laboratory Technician course lays the groundwork for excellence in chemical laboratory operations.

In this course, participants will achieve a Chemical Laboratory Technician certification, which confirms their command of the essential skills and knowledge required in the field. This training highlights critical areas and ensures that technicians are well-prepared to meet industry standards and excel in professional roles.

Participants in this Chemical Laboratory Technician course ensure readiness for a dynamic and rewarding career in chemical laboratory technology. Whether aiming for entry-level positions or seeking advancement within existing roles, it equips participants with the skills needed to excel as proficient chemical laboratory technicians.

What is a Chemical Laboratory Technician?

A Chemical Laboratory Technician is a professional who supports chemists and other scientists by performing chemical analyses and laboratory tests. They play a critical role in ensuring laboratory operations are conducted efficiently and safely. This role involves handling laboratory equipment, conducting experiments, and interpreting data, which makes training like the one offered in our Chemical Laboratory Technician course essential.

Targeted Groups:

This Chemical Laboratory Technician course is designed for:

- Aspiring chemical laboratory technicians seeking foundational training.
- Individuals pursuing a career in chemical analysis.
- Laboratory assistants and support staff in need of skill enhancement.
- Professionals are interested in upgrading their laboratory skills.
- Employees in industries such as pharmaceuticals, food, and environmental testing.
- Recent graduates with degrees in chemistry, biochemistry, or related fields.
- Technicians intending to achieve certification or specialized laboratory roles.

Course Objectives for Aspiring Technicians:

At the conclusion of this Chemical Laboratory Technician training, participants will have:

- A robust understanding of laboratory safety and best practices.
- Mastery of fundamental chemical analysis and testing methodologies.
- Hands-on experience with essential laboratory equipment and instruments.
- Skills to execute precise data collection and result interpretation.
- Knowledge of quality control techniques to ensure reliability and accuracy.
- Proficiency in equipment maintenance and troubleshooting.
- Competence in applying industry standards and regulations to laboratory procedures.
- Enhanced problem-solving capabilities in performing chemical tests and experiments.

Targeted Competencies in Laboratory Proficiency:

Participants in this Chemical Laboratory Technician training will develop:

- Expertise in laboratory safety and the safe handling of hazardous materials.
- Mastery of chemical analysis techniques and related procedures.
- Ability to adeptly operate and maintain laboratory equipment.
- Competence in interpreting test results and documenting findings.
- Insights into quality control and assurance within laboratory settings.
- Strong problem-solving skills tailored to chemical testing environments.
- Effective communication and teamwork skills for collaborative laboratory work.
- Understanding of regulatory standards and compliance pertinent to laboratory operations.

Course Content:

Unit 1: Laboratory Safety and Procedures:

- Understand the importance of laboratory safety.
- Learn how to handle hazardous chemicals safely.
- Get familiar with personal protective equipment PPE and its correct usage.
- Master emergency procedures and first aid in case of accidents.
- Understand the proper disposal of chemicals and waste materials.
- Learn about safety data sheets SDS and their role in hazard communication.
- Study fire safety and the use of fire extinguishers in the lab.

Unit 2: Chemical Analysis Techniques:

- Learn about different methods of chemical analysis.
- Gain practical experience in titration, chromatography, and spectroscopy.
- Understand the principles of gravimetric and volumetric analysis.
- Study pH measurement and its applications in chemical testing.
- Learn about sampling techniques for accurate chemical analysis.
- Develop skills to conduct qualitative and quantitative analysis.
- Interpret the results of chemical analysis and troubleshoot errors.

Unit 3: Laboratory Equipment and Instrumentation:

- Become proficient in using basic laboratory tools like pipettes, burettes, and balances.
- Learn how to operate advanced equipment such as spectrometers and chromatographs.
- Understand the principles behind analytical instruments.
- Study calibration techniques for laboratory instruments.
- Learn how to troubleshoot and maintain laboratory equipment.
- Understand the importance of precision and accuracy in instrument use.
- Practice documenting results from laboratory instruments correctly.

Unit 4: Quality Control and Assurance in Laboratories:

- Understand the role of quality control in chemical laboratories.
- Learn how to perform calibration and validation of instruments.
- Study techniques to ensure consistent and reliable test results.
- Understand statistical methods for data analysis and quality control.
- Learn about laboratory accreditation standards and certification processes.
- Familiarize with the ISO 17025 standard for testing and calibration laboratories.
- Understand how to handle non-conformance and corrective actions.

Unit 5: Laboratory Data Management and Reporting:

- Learn how to record and document laboratory results accurately.
- Study proper data storage and retrieval systems.
- Understand the importance of maintaining clear and concise laboratory reports.
- Learn how to present and interpret chemical data for stakeholders.
- Gain skills in using laboratory management software for data organization.
- Understand the significance of data integrity and confidentiality.
- Learn to write clear and structured analytical reports with conclusions.



**Registration form on the :
Chemical Laboratory Technician Training Course**

code: 15968 **From:** 28 Mar - 01 Apr 2027 **Venue:** Manama (Bahrain) **Fees:** 5500 **Euro**

Complete & Mail or fax to Mercury Training Center at the address given below

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Telephone / Mobile:

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