



AL029: Safety in Analytical Laboratory

Training Description:

This intensive course focuses on the essential concepts and procedures that should be practiced inside analytical laboratory. It covers safety procedures, emergency routines, personal conduct, waste disposal routines and safety equipment.

This course describes safety in analytical laboratory is a very important aspect of science. Without it, experimentation could result in very serious injury, if not death, of course. To reduce the risks involved with experimentation, there are certain procedures that we should all follow as individuals and as a member of a group. It is important that the correct procedures are used in various situations, when handling hazardous or biological materials, when preparing, executing or cleaning up an experiment. It is also essential that you understand how to identify and use emergency equipment and protective gear.

The General Laboratory Safety Manual provides control measures essential for protecting all laboratory occupants from common hazards found in the laboratory.

These controls consist of, but are not limited to, policies, guidelines, training requirements, standard operating procedures, personal protective equipment, and laboratory audits.

Training Objectives:

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

- ✓ Become aware about safety rules in analytical laboratory
- ✓ Recognize hazards that are causing or likely to cause death or serious physical harm to his employees
- ✓ Understand standard operating procedure of analytical laboratory
- ✓ Knowledge about the Occupational Exposure to Hazardous Chemicals in Laboratories
- ✓ Learn standard laboratory control measures
- ✓ Recognize safe handling requirements in the analytical laboratory

Training Designed for:

This course is intended for all Laboratory Managers, Quality Managers, Laboratory Section Heads, Laboratory Chemists, Laboratory Technicians and other laboratory personnel.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Scope and Application
 - Environmental Health and Risk Management
 - General Laboratory Safety Manual Objective
 - Comprehensive Laboratory Safety Program
 - Record Keeping



DAY TWO:

- ❖ **Standard Operating Procedures**
 - General Safety Guidelines
 - Eating, Drinking, and Smoking
 - Housekeeping and Maintenance
 - Hazardous Waste Storage and Disposal
 - Spills and Accident Reporting
 - Audits

DAY THREE:

- ❖ **Standard Laboratory Control Measures**
 - Hygiene Practices
 - Ventilation
 - Safety Equipment
 - Personal Protective Equipment
 - Activities Subject to Approval

DAY FOUR:

- ❖ **Safe Handling Requirements in The Laboratory**
 - Hazard Identification
 - Labeling
 - Compressed Gas Hazards

DAY FIVE:

- ❖ **Emergency and Medical Procedures**
 - Basic Emergency Response
 - Injury and Illness
 - Medical Consultation and Examinations
- ❖ **Course Conclusion**
- ❖ **POST-TEST and EVALUATION**

Training Requirements:

“Hands-on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test



Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department