



# AL125: Laboratory Safety Management and Health Protection

### Training Description:

Health and safety regulations are increasingly emphasizing the importance of management commitment and employee involvement in managing risks. This course describes practices that laboratories should implement to ensure effective health and safety management. These tools are based on the actions recommended in international standard guidelines on workplace safety and health program management. These tools are based on the actions recommended in international standard guidelines on workplace safety and health program management.

The course focuses on creation and implementation of a health and safety program in the laboratory. The aim of this course is to enrich and update the knowledge and skills of the participants for understanding tools and procedure of safety methods in the laboratory.

### Training Objectives:

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

- ✓ Familiarize participants to the laboratory safety tools
- ✓ Recognize and evaluate all potential hazards in a laboratory
- ✓ Provide skills, knowledge and understanding of principles and practices of the application of safety methods in the laboratory
- ✓ Prevent and control the chemical hazards in the laboratory
- ✓ Know how to protect themselves and others
- ✓ Know how to arrange safety hazardous waste disposal
- ✓ Learn standard fire emergency procedures in the laboratory

### Training Designed for:

This course is intended for Chemist, Lab Technicians, Chemical Engineers, Instrument Engineers, Safety Engineers and Lab Supervisors/Managers.

### Training Program:

#### DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Laboratory Standard Safety Guideline
- ❖ Chemical Hygiene Plan
- ❖ Employers Responsibilities
- ❖ Personal Protective Equipment
- ❖ Identification of Hazardous Chemicals
- ❖ Manufacturer Label and Material Safety Data
- ❖ Chemical Safety Symbols

#### DAY TWO:

- ❖ Laboratory Ventilation and Exhaust control
- ❖ Ventilation and Hood System
- ❖ Evaluation and Maintenance Program
- ❖ Safe Work Practices and Procedures



- ❖ Chemical Handling Procedure
- ❖ Chemical Storage
- ❖ Management of Compressed Gases

#### DAY THREE:

- ❖ Transporting of Chemicals
- ❖ Working with Scaled-Up Reactions
- ❖ Electrical Safety
- ❖ Laboratory Equipment Hazards
- ❖ Particularly Hazardous Substances
- ❖ Biological Safety Containment
- ❖ Exposure Control and Laboratory Bio-safety Levels

#### DAY FOUR:

- ❖ Guidelines for Good Laboratory Practices
- ❖ Laboratory fire protection
- ❖ Storage and Handling of Flammable and Combustible Liquids
- ❖ Fire Emergency Procedures
- ❖ Laboratory Waste Disposal
- ❖ Chemical Hazardous Waste Disposal

#### DAY FIVE:

- ❖ Radioactive, Animal, Biological Hazards Wastes Disposal
- ❖ Spill and Hazard Waste Management
- ❖ Safety Procedures of Chemical Spill
- ❖ Effects of chemicals on human health
- ❖ Environmental Effect of the Chemical Waste
- ❖ Laboratory First Aid
- ❖ 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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