



AL109: Chemical Laboratory Waste Management

Training Description:

This course focuses on present methods for the management and ultimate disposal of laboratory waste that may present chemical hazards, as well as those multi hazardous wastes that contain some combination of chemical, radioactive, and biological hazards. The best strategy for managing laboratory waste aims to maximize safety and minimize environmental impact.

This course describes chemical and physical properties of the materials that used or synthesized in chemical laboratory. The evaluating hazards, providing information necessary to make an accurate waste determination, and assisting in the evaluation of appropriate strategies for management, minimization, and disposal.

There are four tiers to waste management to reduce its environmental impact: pollution prevention and source reduction; reuse or redistribution of unwanted, surplus materials; treatment, reclamation, and recycling of materials within the waste; and disposal through incineration, treatment or land burial.

Training Objective:

The objectives for chemical laboratory managing waste are deal with the problem of waste disposal at several levels. The objectives are based on the premise that not all wastes should be treated equally. A practical and useful waste management system is one that takes all of the related factors, such as differences in wastes and dangers of waste, into consideration. In most chemical laboratory, the overall goals or objectives include:

- ✓ Reducing risks and liabilities
- ✓ Controlling costs
- ✓ Planning for the future
- ✓ Coordinating with the respective government department or institution for better waste management practices

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

- ✓ Understand the hazard waste characteristics
- ✓ Recognize essential rules for managing hazardous chemical materials
- ✓ Learn handling, use, transport and storage chemical laboratory waste
- ✓ Aware about chemical laboratory waste treatment, recycle, reuse and final disposal

Training Designed for:

This course is intended for Laboratory Managers, Quality Managers, Laboratory Section Heads, Laboratory Chemists, Laboratory Technicians and other Laboratory Technical Personnel.

Training Program:

FIVE DAYS:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ When is Hazardous Waste Regulated?
- ❖ What is Hazardous Waste?
- ❖ Hazardous Chemical Waste Determination



- ❖ Essential Rules for Managing Hazardous Chemical Materials
 - Waste Minimization
 - Storing waste in the lab (Satellite accumulation)
 - Container Management in SAA's
 - Waste Containers
 - Properly Labeling Waste Containers
 - Drain Disposal
- ❖ Waste Streams with Special Procedures
 - Unknown Materials
 - Peroxide Forming Chemicals
 - Waste Oil
 - Gas Producing Waste Streams
 - Compressed Gas Cylinders
 - Lecture Bottles
 - Aldrich Sure Paks
 - Mercury Containing Items
 - Mixed Waste
 - Empty Containers
 - Disposal of Chemically Contaminated Needles & Syringes
 - DEA Controlled Substances Disposal
 - General Information
 - Lists of Controlled Substances
 - Disposal Procedures
 - DEA Contact Information
 - Refrigerants in Equipment
 - Battery Recycling
 - Non-hazardous Waste Disposal
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s 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:

Aisha Relativo: aisha@cmc-me.com

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615

Training & Career Development Department

