

HAZARD CLASSIFICATION OF CHEMICALS TRAINING

““Ensuring Compliance and Worker Safety through Accurate Chemical Risk Identification””

Schedule

Date	Venue	Fees
21 - 23 Apr 2026	Dubai, UAE	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

The safe handling, labeling, and use of chemicals depend on correct hazard classification. Misclassification can result in regulatory penalties, worker exposure, environmental harm, and accidents. This course is designed to help professionals identify, classify, and communicate chemical hazards in accordance with globally harmonized systems (GHS), OSHA regulations, and industry best practices. Participants will gain in-depth knowledge of chemical hazard types, classification criteria, safety data sheets (SDS), and labeling requirements, as well as how to assess risks and take protective measures within industrial and laboratory environments.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of chemical hazard classification under GHS
- Identify physical, health, and environmental hazards of substances and mixtures
- Interpret and apply classification criteria using SDS and chemical data
- Ensure accurate labeling and documentation for safe use and compliance
- Apply risk assessment strategies and exposure controls in the workplace

Why Attend

- Build compliance with international chemical safety standards
- Minimize health, safety, and environmental risks in your facility
- Gain practical tools for classifying and labeling substances and mixtures
- Improve hazard communication systems across operations
- Strengthen your ability to prepare and evaluate safety documentation

Target Audience

This program is designed for:

- HSE professionals and safety officers
- Chemical engineers and laboratory supervisors
- Compliance managers and regulatory officers
- Warehouse, plant, and maintenance supervisors
- Anyone involved in chemical procurement, handling, storage, or labeling

Individual Benefits

Key competencies that will be developed include:

- GHS classification system and label interpretation
- Hazard determination for substances and mixtures
- SDS preparation, use, and verification
- Risk assessment and control strategies for chemical hazards
- Communication of hazard information to workers and stakeholders

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Safer handling, storage, and transport of hazardous chemicals
- Improved compliance with local and international chemical regulations
- Fewer incidents and improved workplace safety culture
- Better preparation for inspections and audits
- Enhanced documentation and risk communication practices

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - GHS, OSHA, REACH, and local chemical safety frameworks
- Case Studies - Real-world incidents and compliance failures
- Workshops - SDS review, hazard determination, and classification exercises
- Peer Exchange - Sharing chemical safety challenges across industries
- Tools - Classification guides, label templates, and risk assessment checklists

Course Outline

Training Hours: 07:30 AM - 03:30 PM Daily Format: 3-4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 - 02:00

Day 1: Introduction to Hazard Classification Systems

- Module 1: Overview of GHS and Regulatory Frameworks (07:30 - 09:30) • Evolution of GHS and chemical safety regulations • Key roles and responsibilities under the law
- Module 2: Hazard Categories and Definitions (09:45 - 11:15) • Physical, health, and environmental hazard classes • Examples of common hazardous substances
- Module 3: Workshop - Chemical Hazard Identification (11:30 - 01:00) • Identify hazard categories from SDS and product labels

Day 2: Classification, Labeling, and Documentation

- Module 4: Classification of Substances and Mixtures (07:30 - 09:30) • Data sources, bridging principles, and cut-off values • Use of chemical databases for classification
- Module 5: GHS Labeling Requirements (09:45 - 11:15) • Signal words, pictograms, hazard, and precautionary statements • Label placement and multilingual requirements
- Module 6: Workshop - Label Design and SDS Evaluation (11:30 - 01:00) • Design compliant labels and verify SDS content for accuracy

Day 3: Application and Risk Control

- Module 7: Hazard Communication in the Workplace (07:30 - 09:30) • Training, signage, and communication plans • Role of supervisors and safety committees
- Module 8: Risk Assessment and Control Measures (09:45 - 11:15) • Hierarchy of controls and personal protective equipment (PPE) • Monitoring and emergency planning
- Module 9: Final Workshop - Hazard Classification and Control Case Study (11:30 - 01:00) • Conduct full classification, label, and control strategy for a chemical product

Certification

Participants will receive a Certificate of Completion in Hazard Classification of Chemicals, confirming their expertise in applying international standards for chemical safety, labeling, and risk mitigation.

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