MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

SAFE HANDLING & STORAGE OF HAZARDOUS CHEMICALS & MATERIALS

"Ensure Workplace Safety, Compliance & Environmental Protection Through Proper Chemical Management"

Schedule

Date	Venue	Fees
06 – 10 Sep 2026	Doha, Qatar	USD 3495 per delegate
04 – 08 Oct 2026	Doha, Qatar	USD 3495 per delegate

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

Introduction

Hazardous chemicals and materials are essential to many industrial processes, yet they pose significant risks to people, property, and the environment when mishandled. Improper storage, labeling, or transportation can lead to fires, toxic exposures, environmental violations, and costly incidents.

This intensive 5-day course provides participants with practical skills and regulatory knowledge for the safe handling, storage, and transportation of hazardous substances. It emphasizes risk assessment, emergency preparedness, compliance with international standards, and the implementation of effective chemical safety programs.

Objectives

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

- Identify hazardous chemicals and assess associated risks in the workplace
- Apply international standards (e.g., OSHA, GHS, NFPA) for labeling, storage, and handling
- Implement safety data sheet (SDS) interpretation and hazard communication practices
- Design safe chemical storage systems and emergency response plans
- Ensure regulatory compliance and reduce the risk of incidents and injuries

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Why Attend

- Learn how to manage chemical hazards and reduce occupational health risks
- Gain up-to-date knowledge of global chemical safety standards and best practices
- Understand labeling, PPE selection, ventilation, and containment strategies
- Prevent incidents through risk mitigation, inspections, and safety protocols
- Strengthen environmental and workplace safety compliance

Target Audience

This program is designed for:

- HSE officers and industrial safety professionals
- Chemical engineers, lab managers, and plant supervisors
- Facilities, maintenance, and warehouse personnel
- Risk, compliance, and environmental management staff
- Anyone responsible for chemical procurement, storage, or handling

Individual Benefits

Key competencies that will be developed include:

- Hazard identification and classification (flammable, reactive, toxic, corrosive, etc.)
- Interpreting SDS and hazard communication standards
- Chemical segregation and compatible storage design
- Use of personal protective equipment (PPE) and ventilation systems
- Spill response and emergency preparedness planning

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Safer chemical handling and reduced incident rates
- Improved compliance with environmental and occupational health regulations
- Enhanced employee awareness and risk management practices
- Reduced liability and regulatory penalties
- Stronger safety culture and operational continuity

Instructional Methodology

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

- Strategy Briefings – Chemical safety principles and regulatory frameworks
- Case Studies – Real incidents of chemical mishandling and lessons learned
- Workshops – SDS analysis, chemical segregation planning, and PPE selection
- Peer Exchange – Industry examples and hazard control discussions
- Tools – Storage checklists, risk assessment templates, emergency response plans

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Course Outline

DETAILED 5-DAY COURSE OUTLINE

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Chemical Hazards and Safety Requirements

- Module 1: Overview of Hazardous Chemicals (07:30 – 09:30) • Types of hazards: physical, health, environmental • Global chemical safety regulations (GHS, OSHA, REACH)
- Module 2: Safety Data Sheets (SDS) and Labeling Systems (09:45 – 11:15) • Interpreting SDS components and GHS labels
- Module 3: Workshop – SDS Interpretation and Label Review (11:30 – 01:00) • Analyzing real SDS examples and labeling systems
- Module 4: Chemical Safety Responsibilities and Risk Communication (02:00 – 03:30) • Employer, employee, and supplier obligations

Day 2: Storage Principles and Compatibility Management

- Module 1: Storage Design and Infrastructure (07:30 – 09:30) • Secondary containment, ventilation, temperature control
- Module 2: Chemical Segregation and Incompatibility (09:45 – 11:15) • Common incompatibilities and grouping systems
- Module 3: Workshop – Designing a Chemical Storage Plan (11:30 – 01:00) • Layout planning based on hazard classes
- Module 4: Inventory Management and Safety Inspections (02:00 – 03:30) • Labeling, tracking, and periodic reviews

Day 3: Safe Handling Procedures and PPE

- Module 1: Handling Techniques and Exposure Prevention (07:30 – 09:30) • Handling protocols for solids, liquids, and gases
- Module 2: Selection and Use of PPE (09:45 – 11:15) • Gloves, goggles, respirators, and protective clothing
- Module 3: Workshop – PPE Selection Exercise (11:30 – 01:00) • Selecting appropriate PPE for various chemical risks
- Module 4: Engineering Controls and Ventilation (02:00 – 03:30) • Fume hoods, LEV systems, and air monitoring

Day 4: Spill Control and Emergency Response

- Module 1: Spill Prevention and Response Planning (07:30 – 09:30) • Spill kits, containment, cleanup procedures
- Module 2: Fire and Explosion Hazards (09:45 – 11:15) • Flashpoint, ignition control, and fire suppression
- Module 3: Workshop – Spill Scenario Simulation (11:30 – 01:00) • Develop an emergency response plan for a chemical spill
- Module 4: Incident Reporting and Post-Incident Actions (02:00 – 03:30) • Root cause analysis and corrective measures

Day 5: Audits, Compliance & Continuous Improvement

- Module 1: Chemical Safety Audits and Inspections (07:30 – 09:30) • Conducting internal audits and regulatory compliance checks
- Module 2: Waste Disposal and Environmental Considerations (09:45 – 11:15) • Hazardous waste classification, storage, and disposal
- Module 3: Workshop – Audit Checklist Development (11:30 – 01:00) • Build a chemical safety audit template
- Module 4: Final Review – Course Wrap-Up and Action Planning (02:00 – 03:30) • Group discussion and next steps for implementation

Certification

Participants will receive a Certificate of Completion in Safe Handling & Storage of Hazardous Chemicals & Materials, validating their ability to manage chemical risks, ensure regulatory compliance, and uphold safety standards in industrial and laboratory environments.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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