MERCURY

HAZMAT Handling and COSHH

19 – 23 April 2027
Barcelona (Spain)



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HAZMAT Handling and COSHH

Ref: 16312_1081524 **Date:** 19 – 23 April 2027 **Location:** Barcelona (Spain) **Fees:** 5600 Euro

Introduction:

Handling hazardous materials HAZMAT and complying with Control of Substances Hazardous to Health COSHH regulations are critical responsibilities for professionals in industries exposed to chemical, biological, or toxic risks. This HAZMAT Handling and COSHH course provides participants with the knowledge necessary to safely manage hazardous substances.

This HAZMAT Handling and COSHH program covers the legal, technical, and operational requirements for handling hazardous materials. It highlights both international HAZMAT handling standards and COSHH compliance to ensure workplace safety and environmental protection. Participants will gain practical strategies for recognizing hazards, assessing risks, and developing effective emergency response plans.

The HAZMAT Handling and COSHH training course also addresses labeling, storage, and transportation of hazardous substances under recognized frameworks. Real-world case studies and regulatory updates are integrated to enhance learning and applicability. Learners will apply preventive measures that minimize risks and safeguard health, safety, and compliance.

Targeted Groups:

This HAZMAT Handling and COSHH training targets professionals seeking specialized knowledge and skills:

- Safety officers and HSE managers.
- Industrial supervisors and team leaders.
- Laboratory staff and chemical handlers.
- Transport and logistics coordinators.
- Manufacturing and process engineers.
- Emergency responders and fire safety teams.
- Environmental protection officers.
- Oil, gas, and petrochemical industry professionals.
- Healthcare and pharmaceutical sector personnel.
- Waste management and recycling professionals.

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Course Objectives:

Participants will achieve the following objectives by completing the HAZMAT Handling and COSHH course:

- Identify hazardous substances and classify them according to global standards.
- Interpret COSHH regulations and apply them in workplace settings.
- Analyze risks associated with handling, storing, and transporting hazardous materials.
- Develop written risk assessments tailored to specific operational environments.
- Demonstrate correct use of labeling, signage, and Safety Data Sheets SDS.
- Apply safe work practices to prevent exposure to toxic chemicals.
- Design control measures, including engineering controls and personal protective equipment.
- Practice effective incident reporting and documentation procedures to ensure accurate and timely reporting.
- Formulate emergency response strategies for spills, leaks, and exposure events.
- Implement waste disposal practices that comply with environmental regulations.
- Evaluate case studies to reinforce compliance knowledge.
- Collaborate with multidisciplinary teams to enforce HAZMAT safety protocols.
- Strengthen decision-making skills in high-risk scenarios.
- Enhance personal responsibility and professional accountability in hazard control.
- Prepare strategies for ongoing compliance with evolving standards.
- Contribute to a culture of continuous safety improvement in organizations.

Targeted Competencies:

Participants will gain the following competencies during the HAZMAT Handling and COSHH program:

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- Hazard recognition and classification skills.
- COSHH compliance and regulatory interpretation.
- Practical risk assessment and control planning.
- Proficiency in chemical labeling and SDS usage.
- Incident investigation and root cause analysis.
- Emergency spill response and containment techniques.
- Safe handling, storage, and transportation practices.
- Effective communication of safety procedures.
- Decision-making in high-risk operational environments.
- Team coordination for health, safety, and environmental protection.

Studying Scenarios:

In this HAZMAT Handling and COSHH training, participants will develop their skills through the analysis of the following scenarios:

- Responding to a chemical spill in a production plant.
- Handling laboratory substances with unknown hazards.
- Managing hazardous waste disposal in compliance with environmental law.
- Implementing COSHH regulations in a manufacturing process.
- Investigating a worker exposure incident and preventing recurrence.
- Coordinating emergency actions during a transportation accident.
- Addressing inadequate labeling in a storage facility.
- Applying correct PPE usage during toxic chemical handling.
- Ensuring compliance during an external HSE audit.
- Managing cross-departmental safety communication in crises.

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Course Content:

Unit 1: Fundamentals of HAZMAT and COSHH:

- Definition and scope of hazardous materials.
- Overview of COSHH principles and legal requirements.
- Types of hazardous substances: chemical, biological, and physical.
- Routes of exposure and health implications.
- Global classification and labeling systems.
- Safety Data Sheets SDS and Their Critical Role
- Common industry practices in HAZMAT management.
- Responsibilities of employers and employees under COSHH.
- Ethical considerations in hazardous material handling.

Unit 2: Hazard Identification and Risk Assessment:

- Hazard recognition in industrial, laboratory, and transport settings.
- Techniques for systematic risk assessment.
- Evaluating the likelihood and severity of exposure.
- Control hierarchy: elimination, substitution, engineering controls.
- COSHH assessment documentation requirements.
- Identifying vulnerable groups and sensitive environments.
- Linking risk assessment to operational decisions.
- Monitoring the effectiveness of implemented controls.
- Integrating technological tools in hazard assessment.

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Unit 3: Safe Handling, Storage, and Transportation:

- Proper storage techniques for chemical compatibility.
- Segregation of flammable, corrosive, and reactive substances.
- Safe transfer methods for liquids, gases, and powders.
- Packaging and labeling requirements for transport.
- International transport regulations ADR, IMDG, IATA.
- Spill prevention during handling and logistics operations.
- Temperature, ventilation, and humidity considerations in storage.
- Emergency signage and facility layout design.
- Training staff for safe manual and mechanical handling.

Unit 4: Emergency Response and Incident Management:

- Spill response procedures and containment methods.
- Evacuation planning and emergency drills.
- Incident reporting and documentation protocols.
- Fire and explosion risks associated with hazardous materials.
- PPE selection for different emergency scenarios.
- First Aid Measures for Exposure and Contamination.
- Coordination with local emergency services.
- Post-incident evaluation and corrective actions.
- Building resilience through emergency preparedness plans.

Unit 5: Compliance, Best Practices, and Continuous Improvement:

- National and international legal frameworks for COSHH.
- Employer obligations in maintaining compliance.
- Regular audits and inspections for hazardous materials.
- Integration of COSHH with ISO and HSE standards.
- Case studies of compliance successes and failures.
- Best practices in waste management and environmental protection.
- Leveraging technology for compliance tracking.
- Continuous training and employee engagement in safety.
- Developing a culture of proactive risk management.

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Final Insights & Key Takeaways:

This course equips participants with the essential knowledge to handle hazardous materials responsibly and in compliance with COSHH regulations, providing practical tools for risk assessment, labeling, storage, and emergency response. The structured learning pathway prepares professionals to protect health, safety, and the environment. By applying best practices, participants contribute to safer workplaces and stronger organizational compliance.