Hazardous Materials Handling Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Hazardous Materials Handling Training Course provides participants with essential knowledge and practical skills to manage, store, transport, and dispose of hazardous substances safely. With industries increasingly exposed to chemical, biological, and physical hazards, professionals need to understand regulatory compliance, risk assessment, workplace safety standards, and environmental protection measures. This course emphasizes hands-on training, scenario-based learning, and best practices for minimizing exposure to hazardous materials while ensuring operational efficiency and legal compliance. Participants will gain competencies in chemical labeling, safety data sheets interpretation, spill response, and emergency preparedness.

In addition, the course integrates industry-standard procedures, occupational health principles, and sustainable safety practices to mitigate environmental and workplace hazards. It equips participants with the ability to identify, assess, and control risks associated with hazardous substances, aligning with OSHA, EPA, and international safety standards. By the end of the program, learners will be able to implement safety protocols effectively, respond to hazardous incidents, and contribute to building a culture of safety within their organizations, ensuring both human and environmental protection.

Programme Curriculum

Hazardous Materials Handling Training Course

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Course Objectives

1. Understand classification and types of hazardous materials.
2. Identify regulatory frameworks including OSHA, EPA, and DOT standards.
3. Learn proper labeling, storage, and packaging techniques.
4. Conduct risk assessment and hazard analysis in the workplace.
5. Implement spill prevention and emergency response procedures.
6. Apply safe handling and transportation practices for hazardous materials.
7. Interpret Safety Data Sheets (SDS) effectively.
8. Utilize personal protective equipment (PPE) correctly.
9. Develop chemical exposure control strategies.
10. Plan and execute hazardous waste disposal protocols.
11. Enhance workplace safety culture through training and awareness.
12. Manage environmental impacts of hazardous substances.
13. Apply incident reporting and investigation procedures.

Organizational Benefits

1. Reduced workplace accidents and chemical exposures.
2. Improved compliance with national and international regulations.
3. Enhanced employee safety awareness and competencies.
4. Minimized environmental risks and liabilities.
5. Efficient handling and transportation of hazardous substances.
6. Increased operational productivity through safe practices.
7. Improved emergency preparedness and response capabilities.

8. Strengthened organizational reputation for safety and sustainability.
9. Lowered insurance premiums due to risk mitigation.
10. Development of a proactive safety culture among staff.

Target Audiences

1. Industrial safety officers
2. Chemical plant operators
3. Environmental health and safety professionals
4. Logistics and transport managers
5. Laboratory technicians
6. Waste management personnel
7. Facility managers
8. Regulatory compliance officers

Course Duration: 5 days

Course Modules

Module 1: Introduction to Hazardous Materials

- Definition and classification of hazardous materials
- Chemical, biological, and physical hazards
- Regulatory framework overview
- Workplace safety requirements
- Risk identification techniques
- Case study: Chemical spill incident analysis

Module 2: Hazard Communication & Labeling

- Globally Harmonized System (GHS) standards
- Safety Data Sheets (SDS) interpretation
- Proper labeling techniques
- Chemical inventory management
- Communication strategies for hazards
- Case study: Mislabeling consequences in a warehouse

Module 3: Storage & Packaging of Hazardous Materials

- Safe storage practices for chemicals
- Segregation of incompatible materials
- Packaging standards and materials
- Temperature and environmental control
- Inventory tracking methods
- Case study: Warehouse fire due to improper storage

Module 4: Personal Protective Equipment (PPE)

- Types of PPE for chemical, biological hazards
- Selection criteria based on hazard assessment
- Proper usage and maintenance
- PPE compliance standards
- Employee training on PPE
- Case study: Exposure incident prevention with PPE

Module 5: Hazardous Waste Management

- Identification of hazardous waste types
- Waste handling procedures
- Storage and containment solutions
- Disposal methods and regulatory compliance
- Recordkeeping and reporting
- Case study: Regulatory inspection and compliance

Module 6: Spill Prevention & Emergency Response

- Spill containment procedures
- Emergency response planning
- Decontamination processes
- Incident reporting protocols
- Coordination with emergency services
- Case study: Laboratory spill response scenario

Module 7: Transportation of Hazardous Materials

- Regulations for transport (DOT, UN standards)

- Vehicle and container requirements
- Loading and unloading procedures
- Documentation and labeling
- Emergency procedures during transit
- Case study: Road transport accident analysis

Module 8: Risk Assessment & Safety Culture

- Conducting workplace hazard assessments
- Risk mitigation strategies
- Safety audits and inspections
- Promoting safety awareness programs
- Continuous improvement techniques
- Case study: Implementing a safety culture in a chemical plant

Training Methodology

- Interactive lectures with real-world examples
- Hands-on practical exercises and simulations
- Group discussions and collaborative activities
- Case study analyses and incident investigations
- Quizzes and assessments for comprehension
- Role-playing emergency response scenarios

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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