



GLOBAL
INDUSTRIES
INTELLIGENCE



CERTIFIED HAZARDOUS

MATERIALS MANAGER CHMM

COURSE OUTLINES

Certified Hazardous Materials Manager (CHMM) certification course provides professionals with the knowledge required to effectively manage hazardous materials in compliance with environmental, health, and safety regulations. A typical **5-day CHMM** course covers the following key topics:

DAY 1: INTRODUCTION TO HAZARDOUS MATERIALS AND REGULATIONS

- **Overview of Hazardous Materials**
 - Definition and classification of hazardous materials
 - Types of hazardous materials: chemical, biological, radiological, and waste
 - Characteristics of hazardous materials: toxicity, flammability, reactivity, corrosivity
- **Regulatory Framework**
 - Overview of environmental, health, and safety regulations
 - Key regulatory bodies: EPA (Environmental Protection Agency), OSHA (Occupational Safety and Health Administration), DOT (Department of Transportation), and others
 - Regulatory requirements for hazardous materials handling, storage, and transportation
 - Hazardous materials regulations (RCRA, CERCLA, TSCA, SARA, etc.)
- **Hazard Communication and Safety Data Sheets (SDS)**
 - OSHA Hazard Communication Standard
 - Understanding and interpreting SDS
 - Labeling requirements for hazardous chemicals
 - The Globally Harmonized System (GHS)

DAY 2: HAZARDOUS MATERIALS MANAGEMENT AND WASTE DISPOSAL

- **Hazardous Materials Handling**
 - Proper handling procedures and safety protocols
 - Personal protective equipment (PPE) for hazardous materials

- Reporting requirements for hazardous material releases
- First aid and medical treatment for exposure to hazardous substances

DAY 3: ENVIRONMENTAL HEALTH AND SAFETY, RISK ASSESSMENT

- **Environmental Risk Assessment**

- Hazard identification and risk analysis
- Methods for assessing environmental impact
- Exposure assessment for workers and surrounding communities
- Quantitative and qualitative risk analysis techniques

- **Health and Safety in Hazardous Materials Management**

- Occupational health risks associated with hazardous materials exposure
- Monitoring and exposure control techniques
- Workplace safety programs and training
- Toxicology and biological effects of hazardous materials
- Medical surveillance programs for workers



- **Industrial Hygiene and Safety Programs**

- Industrial hygiene principles: air monitoring, ventilation, and hazard control
- Safety programs for hazardous materials management
- Lockout/tagout procedures, confined space entry
- Chemical safety in laboratories and production facilities

DAY 4: ENVIRONMENTAL IMPACT, SUSTAINABILITY, AND COMPLIANCE

- **Environmental Compliance and Audits**

- Conducting environmental compliance audits
- Regulatory inspections and audits by agencies
- Reporting requirements and documentation for compliance
- Corrective actions and continuous improvement for environmental performance

- **Sustainability in Hazardous Materials Management**

- Sustainable practices in hazardous materials management
- Green chemistry and reducing hazardous material use
- Pollution prevention and waste minimization strategies
- Role of hazardous materials management in environmental sustainability

- **Site Remediation and Cleanup**

- Site assessment and remediation technologies
- Groundwater and soil contamination
- Remediation processes: bioremediation, excavation, and treatment
- Risk-based cleanup standards

DAY 5: CERTIFICATION EXAM PREPARATION AND ADVANCED TOPICS

- **Advanced Hazardous Materials Management**

- Risk management in hazardous materials handling
- Emergency response for large-scale hazardous material incidents
- Disaster planning for hazardous materials incidents (chemical spills, fires, explosions)

- **Preparation for the CHMM Exam**

- Review of key concepts and regulatory requirements
- Practice exam questions and discussion
- Study strategies for the CHMM exam
- Understanding the CHMM exam format and content areas

- **Final Assessment**

- Mock exam to evaluate readiness
- Final review of all course material
- Tips for passing the CHMM certification exam

This 5-day Certified Hazardous Materials Manager (CHMM) course provides a comprehensive, hands-on approach to managing hazardous materials, ensuring compliance with environmental, safety, and regulatory standards. The course prepares participants for the CHMM certification exam and equips them with the practical skills to effectively handle, store, and dispose of hazardous materials in a safe and environmentally responsible manner.

