Hazardous Waste Management and Regulatory Compliance Training Course

02 - 06 Nov 2026

Cape town

4600 € (Per Person)

Ref: #ACE6515_296338

Course Introduction / Overview:

This comprehensive course provides an in-depth exploration of hazardous waste management and pollution control, grounded in the principles of regulatory compliance and environmental stewardship. In an era of increasing environmental scrutiny, mastering these complex regulations is not just a legal necessity but a cornerstone of corporate responsibility and operational excellence. This program is meticulously designed to transform participants from being merely aware of the rules to becoming proactive managers of environmental risk. Drawing upon foundational concepts from leading experts like Dr. Paul L. Bishop and insights from seminal works such as "Pollution Prevention: Fundamentals and Practice", the curriculum bridges theory with real-world application. BIG BEN Training Center has developed this course to empower professionals with the critical skills needed to navigate the entire lifecycle of hazardous waste, from generation and characterization to transportation, treatment, and disposal. Participants will gain a robust understanding of key legislative frameworks, pollution prevention strategies, and emergency response protocols, ensuring their organizations not only achieve compliance but also enhance their sustainability credentials and operational efficiency. This is a definitive guide for any professional committed to excellence in environmental health and safety.

Target Audience / This training course is suitable for:

- Environmental, Health, and Safety (EHS) Managers and Specialists.
- Compliance Officers and Environmental Coordinators.
- Plant, Facility, and Operations Managers.
- Chemical Engineers and Industrial Hygienists.
- Waste Management Supervisors.
- Regulatory Affairs Professionals.
- Logistics and Supply Chain Managers involved in hazmat transport.
- Consultants in the environmental sector.
- Corporate Legal and Risk Management Staff.

Target Sectors and Industries:

- Chemical Manufacturing and Processing.
- Oil and Gas Exploration, Refining, and Distribution.
- Pharmaceutical and Biotechnology Industries.
- Healthcare Facilities and Medical Laboratories.
- Heavy Manufacturing and Industrial Production.
- Construction and Demolition Sectors.
- Mining and Mineral Processing.
- Governmental bodies, including environmental protection agencies and municipal waste authorities.
- Utilities and Power Generation.
- Aerospace and Defense Industries.

Target Organizations Departments:

- Environmental, Health, and Safety (EHS) Department.
- Operations and Production Management.
- Compliance and Regulatory Affairs.
- Facilities and Plant Management.
- Logistics and Transportation.
- Legal and Corporate Governance.
- Risk Management and Auditing.
- Research and Development (R&D).
- Maintenance and Engineering.

Course Offerings:

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

- Identify and classify hazardous waste according to federal and international regulations.
- Implement effective waste segregation, labeling, and storage procedures on-site.
- Develop and execute comprehensive waste minimization and pollution prevention plans.
- Navigate the complexities of hazardous waste transportation, including manifesting and DOT requirements.
- Evaluate and select appropriate treatment, storage, and disposal facilities (TSDFs).
- Establish robust monitoring, recordkeeping, and reporting systems for compliance.
- Conduct internal environmental audits to identify and mitigate compliance gaps.
- Develop and implement effective emergency response plans for spills and releases.
- Integrate environmental management systems like ISO 14001 into their operations.
- Analyze and apply principles of air, water, and soil pollution control technologies.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can immediately apply their learning in the workplace. This course moves beyond traditional lectures by incorporating a dynamic blend of learning techniques. A significant portion of the training is dedicated to analyzing real-world case studies, allowing participants to dissect complex compliance challenges and develop effective solutions. Interactive group discussions and workshops foster a collaborative learning environment where professionals can share experiences and best practices from their respective industries. Practical exercises, such as mock waste characterization and audit scenarios, provide hands-on experience in a controlled setting. Our expert instructors facilitate sessions that encourage critical thinking and problem-solving, ensuring a deep understanding of the material. Continuous feedback is provided throughout the course, and participants will engage in team-based projects to simulate the development of a comprehensive waste management plan. This blended approach guarantees a rich and impactful learning experience that builds both knowledge and confidence.

Course Agenda (Course Units):

Unit One: Foundations of Hazardous Waste and Regulatory Frameworks

- Introduction to Hazardous Waste Management.
- Defining and Identifying Hazardous Wastes.
- The Resource Conservation and Recovery Act (RCRA).
- Waste Characterization and Profiling Techniques.
- Understanding Generator Status and Responsibilities.
- Key Principles of the Clean Air Act (CAA) and Clean Water Act (CWA).
- Introduction to International Waste Regulations.

Unit Two: On-Site Management, Pollution Prevention, and Safety

- Proper Waste Accumulation and On-Site Storage Requirements.
- Labeling, Marking, and Container Management.
- Developing a Comprehensive Waste Minimization Plan.
- Pollution Prevention (P2) Strategies and Source Reduction.
- Health and Safety Protocols for Handling Hazardous Materials.
- Personal Protective Equipment (PPE) Selection and Use.
- Recordkeeping for On-Site Waste Management Activities.

Unit Three: Hazardous Waste Transportation, Treatment, and Disposal

- Department of Transportation (DOT) Hazmat Regulations.
- The Uniform Hazardous Waste Manifest System.
- Selecting and Auditing Transporters and TSD Facilities.
- Overview of Waste Treatment Technologies.
- Land Disposal Restrictions (LDRs) and Requirements.
- Final Disposal Methods and Long-Term Liabilities.
- Managing Universal Wastes and Used Oil.

Unit Four: Environmental Compliance, Monitoring, and Auditing

- Developing an Environmental Compliance Program.
- Air and Water Pollution Control Technologies and Monitoring.
- Soil and Groundwater Contamination and Remediation.
- Conducting Effective Environmental Audits and Self-Inspections.
- Reporting Requirements, including TRI and Biennial Reporting.
- Managing Agency Inspections and Enforcement Actions.
- Environmental Management Systems (EMS) and ISO 14001.

Unit Five: Emergency Preparedness and Advanced Topics

- Developing an Integrated Contingency and Spill Response Plan.
- Spill Prevention, Control, and Countermeasure (SPCC) Plans.
- HAZWOPER Awareness for First Responders.
- Environmental Risk Assessment and Management.
- The Role of Sustainability and Circular Economy in Waste Management.
- Emerging Contaminants and Future Regulatory Trends.
- Course Review and Final Assessment Workshop.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond mere compliance, how can organizations strategically leverage hazardous waste management as a catalyst for innovation, resource efficiency, and a transition to a circular economy model?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by adopting a holistic and strategic perspective on environmental compliance, moving far beyond a simple recitation of regulations. While other programs may focus narrowly on waste identification or disposal, our curriculum integrates hazardous waste management, pollution control, and regulatory compliance into a unified operational strategy. We emphasize the "why" behind the regulations, empowering participants to think critically and develop proactive, risk-based compliance programs rather than reactive, checklist-based ones. The content is enriched with insights on leveraging environmental management not just as a cost center, but as a driver for operational efficiency, sustainability, and enhanced corporate reputation. Our focus on practical application through complex case studies, simulated audits, and the development of pollution prevention plans ensures that participants leave with tangible skills. The course uniquely bridges the gap between foundational knowledge and advanced topics like Environmental Management Systems (ISO 14001) and the principles of a circular economy, preparing professionals not only for today's challenges but also for the future of environmental stewardship.