Advanced Dangerous Goods Handling and Safety Management Training Course

02 - 06 Nov 2026

Cape town

4600 € (Per Person)

Ref: #LOG7284_286426

Course Introduction / Overview:

The transportation and handling of hazardous materials present significant risks that demand rigorous knowledge and unwavering adherence to complex international regulations. This course provides a comprehensive framework for managing dangerous goods safely and effectively, ensuring compliance and protecting people, property, and the environment. Moving beyond basic awareness, this program delves into the intricacies of classification, packaging, documentation, and emergency response across various transport modes, including air (IATA), sea (IMDG), and road (ADR). Drawing on foundational principles outlined in globally recognized standards like the UN Recommendations on the Transport of Dangerous Goods, this training emphasizes a proactive approach to safety management. As noted by safety expert Dr. Michael S. Bisesi, effective environmental health and safety programs are built on a deep understanding of both the regulations and the practical risks involved. BIG BEN Training Center has designed this course to equip participants with the strategic skills needed to develop and implement robust safety protocols, conduct thorough risk assessments, and foster a culture of safety within their organizations, turning regulatory obligations into a cornerstone of operational excellence.

Target Audience / This training course is suitable for:

- Logistics and Supply Chain Managers.
- Health, Safety, and Environment (HSE) Officers and Managers.
- Warehouse and Distribution Center Supervisors.
- Shipping and Receiving Coordinators.
- Compliance and Regulatory Affairs Specialists.
- Operations Managers in manufacturing and chemical industries.
- Freight Forwarders and Cargo Agents.
- Emergency Response Team Members.
- Procurement and Purchasing staff dealing with hazardous materials.
- Anyone aspiring to become a Dangerous Goods Safety Advisor (DGSA).

Target Sectors and Industries:

- Logistics, Freight Forwarding, and Transportation.
- Chemical Manufacturing and Distribution.
- Oil and Gas Exploration and Production.
- Aviation and Aerospace.
- Maritime Shipping and Port Operations.
- Pharmaceutical and Healthcare Industries.
- Automotive and Battery Manufacturing.
- Agriculture and Pesticide Production.
- Mining and Raw Material Extraction.
- Governmental bodies, including regulatory agencies and civil defense.

Target Organizations Departments:

- Supply Chain and Logistics.
- Health, Safety, and Environment (HSE).
- Operations and Production.
- Warehouse and Inventory Management.
- Regulatory Compliance and Legal.
- Procurement and Sourcing.
- Quality Assurance and Control.
- Emergency Management and Security.
- Transportation and Fleet Management.
- Research and Development (R&D).

Course Offerings:

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

- Correctly classify dangerous goods according to the nine hazard classes.
- Interpret and apply regulations from IATA, IMDG, and ADR for multimodal transport.
- Select appropriate UN-specification packaging and apply correct marking and labeling.
- Prepare and validate all necessary shipping documentation, including the Shipper's Declaration.
- Implement proper procedures for segregation, loading, and securing of hazardous materials.
- Develop and execute effective emergency response plans for spills and incidents.
- Conduct comprehensive risk assessments for dangerous goods handling and storage operations.
- Audit existing safety procedures to identify gaps and ensure continuous compliance.
- Foster a proactive safety culture within their teams and organization.
- Manage the specific requirements for shipping sensitive items like lithium batteries and infectious substances.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring that participants not only learn the regulations but also understand how to apply them in real-world scenarios. We move beyond traditional lecture-based formats to create a dynamic learning environment. The course is built upon a foundation of expert-led instruction, where complex regulatory information is broken down into understandable and manageable modules. This is heavily supplemented with detailed case studies of actual hazmat incidents, allowing participants to analyze failures and successes in a controlled setting. A significant portion of the training is dedicated to hands-on workshops, where attendees will practice classifying goods, completing shipping documents, and selecting packaging. Collaborative group exercises will challenge participants to work together on risk assessments and emergency response simulations, fostering teamwork and critical thinking. Regular Q&A sessions, peer-to-peer discussions, and direct feedback from the instructor ensure that individual learning needs are met and that every participant leaves with the confidence to manage dangerous goods safely and compliantly.

Course Agenda (Course Units):

Unit One Foundations of Dangerous Goods Management

- Introduction to Dangerous Goods and Hazardous Materials.
- Legal Frameworks and Regulatory Bodies (UN, IATA, IMO, ADR).
- Roles and Responsibilities of the Consignor, Carrier, and Consignee.
- Understanding the Nine Hazard Classes and Their Divisions.
- Concepts of Inherent Safety and Risk Management Principles.
- Security Awareness in the Hazmat Supply Chain.
- Training Requirements for Personnel Involved in DG Transport.

Unit Two Classification, Identification, and Packaging

- The Process of Classifying Unknown Substances.
- Using the Dangerous Goods List to Find UN Numbers and Proper Shipping Names (PSN).
- Understanding Packing Groups (I, II, III) and Their Significance.
- Interpreting Special Provisions and Limited Quantity Exemptions.
- Selecting UN-Specification Packaging and Performance Standards.
- Procedures for Testing and Certifying Packaging.
- Specific Requirements for Combination and Single Packagings.

Unit Three Hazard Communication and Documentation

- Principles of Hazard Communication.
- Correct Application of Hazard Labels and Handling Marks.
- Placarding Requirements for Vehicles and Cargo Transport Units (CTUs).
- Preparing the Shipper's Declaration for Dangerous Goods (DGD).
- Completing Other Transport Documents (e.g., Bill of Lading, Air Waybill).
- Record-Keeping and Documentation Retention Policies.
- Introduction to the Globally Harmonized System (GHS).

Unit Four Transportation and Storage Operations

- Rules for Segregation of Incompatible Dangerous Goods.
- Proper Loading, Blocking, and Bracing Techniques.
- Procedures for Safe Unloading and Receiving of Hazmat.
- Requirements for Safe Warehousing and Storage of Dangerous Goods.
- Managing Temperature-Controlled and Time-Sensitive Shipments.
- Vehicle and Driver Requirements for Road Transport (ADR).
- Specific Operational Considerations for Air and Sea Transport.

Unit Five Emergency Response and Advanced Safety Management

- Developing a Comprehensive Emergency Response Plan.
- Initial Actions and Notifications Following a Hazmat Incident.
- Spill Containment, Cleanup, and Decontamination Procedures.
- Using the Emergency Response Guidebook (ERG).
- Incident Investigation and Root Cause Analysis.
- Conducting Dangerous Goods Audits and Site Inspections.
- Cultivating a Proactive and Positive Organizational Safety Culture.

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 regulatory compliance, how can an organization leverage its dangerous goods management program to create a competitive advantage and enhance its corporate social responsibility profile?

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

This course distinguishes itself by adopting a holistic and strategic perspective on dangerous goods management, moving beyond rote memorization of regulations. While many programs focus solely on achieving compliance, our curriculum is designed to cultivate safety leaders who understand the deep integration of DG management with overall business operations, risk management, and corporate reputation. We emphasize the development of critical thinking skills through complex, real-world case studies and incident analysis, challenging participants to make decisions under pressure. The program uniquely focuses on building a proactive safety culture, providing actionable strategies for influencing organizational behavior and achieving buy-in from stakeholders at all levels. Rather than just teaching the "what" and "how" of the regulations, we explore the "why" behind them, fostering a deeper understanding that leads to more robust and resilient safety systems. This approach ensures that graduates are not merely certified handlers but are equipped to become true safety advocates and strategic assets to their organizations, capable of designing, implementing, and continuously improving a world-class dangerous goods safety program.