



HAZARDOUS MATERIALS TRANSPORT AND HANDLING COMPLIANCE TRAINING COURSE

07 - 11 DEC 2026

DUISSELDORF

5900 € (PER PERSON)

REF: #LOG1587_34176



COURSE INTRODUCTION / OVERVIEW:

This comprehensive training course provides an in-depth exploration of the critical regulations and best practices governing the safe handling and transport of hazardous materials. In a world with an increasingly complex global supply chain, strict adherence to regulatory compliance is not just a legal obligation but a cornerstone of corporate responsibility, environmental protection, and public safety. This program is designed to equip participants with the essential knowledge to navigate the intricate web of national and international regulations, including standards like DOT, IATA, and IMDG. Drawing upon the principles of process safety, as detailed by renowned academic Daniel A. Crowl in his seminal work "Chemical Process Safety: Fundamentals with Applications," the course emphasizes a proactive approach to risk assessment and incident prevention. Participants will move beyond simple memorization of rules to develop a deep understanding of the 'why' behind the regulations. BIG BEN Training Center has structured this course to build confidence and competence, ensuring that every individual involved in the HazMat logistics chain can perform their duties effectively, minimize risks, and uphold the highest standards of safety and compliance from classification and packaging to final delivery.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Logistics and Supply Chain Managers.
- Warehouse and Distribution Supervisors.
- Health, Safety, and Environmental (HSE) Officers.
- Compliance and Regulatory Affairs Specialists.
- Shipping and Receiving Personnel.
- Freight Forwarders and Customs Brokers.
- Transportation and Fleet Managers.
- Emergency Response Team Members.
- Laboratory and Chemical Technicians.
- Procurement and Purchasing Staff handling dangerous goods.

TARGET SECTORS AND INDUSTRIES:

- Chemical Manufacturing and Distribution.
- Oil and Gas Exploration and Production.
- Logistics, Transportation, and Freight Forwarding.
- Pharmaceutical and Biotechnology Industries.

- Aerospace and Defense Contracting.
- Automotive and Heavy Machinery Manufacturing.
- Waste Management and Environmental Services.
- Healthcare and Medical Facilities.
- Agriculture and Agrochemicals.
- Governmental bodies and regulatory enforcement agencies.



TARGET ORGANIZATIONS DEPARTMENTS:

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

COURSE OFFERINGS:

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

- Classify hazardous materials according to international and domestic regulatory frameworks.
- Select appropriate packaging and apply correct marking and labeling for shipments.
- Accurately complete and verify hazardous materials shipping papers and documentation.
- Implement correct vehicle placarding procedures for road transport.
- Understand the principles of segregation for incompatible dangerous goods.
- Develop and apply safe loading, unloading, and storage procedures.
- Recognize and mitigate security risks associated with HazMat transportation.
- Formulate an initial response plan for spills and emergency incidents.
- Conduct a fundamental risk assessment for hazardous material handling tasks.
- Navigate the key requirements of DOT, IATA, and IMDG regulations.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is centered on creating an immersive and practical learning environment that bridges regulatory theory with real-world application. This course moves beyond traditional lectures by incorporating a dynamic blend of interactive learning techniques. Participants will engage in detailed case studies of actual HazMat incidents, analyzing root causes and preventative measures in collaborative group discussions. Practical workshops will focus on hands-on exercises, such as classifying substances using Safety Data Sheets (SDS), preparing

compliant shipping documents, and simulating the correct labeling of packages. Interactive sessions, expert-led Q&A forums, and scenario-based problem-solving activities are integrated throughout the five days to reinforce key concepts and build critical thinking skills. The methodology emphasizes peer-to-peer learning and continuous feedback, ensuring participants not only grasp the complex regulatory requirements but also gain the confidence to apply them effectively in their specific operational contexts, thereby fostering a robust culture of safety and compliance within their organizations.



COURSE AGENDA (COURSE UNITS).

UNIT ONE: FOUNDATIONS OF HAZARDOUS MATERIALS MANAGEMENT

- Introduction to Hazardous Materials and Dangerous Goods.
- Legal Frameworks and Regulatory Agencies (DOT, IATA, IMDG).
- The Globally Harmonized System (GHS) of Classification and Labelling.
- Understanding the Nine Hazard Classes.
- Roles and Responsibilities of Shippers, Carriers, and Handlers.
- Interpreting Safety Data Sheets (SDS) for transport information.
- Fundamentals of Risk Assessment and Hazard Communication.

UNIT TWO: PACKAGING, MARKING, LABELING, AND PLACARDING

- General Packaging Requirements and Performance Standards.
- Selecting UN Specification Packaging.
- Proper Marking of Packages (e.g., Proper Shipping Name, UN Number).
- Correct Application of Hazard and Handling Labels.
- Special Provisions and Limited Quantity Exemptions.
- Regulations for Overpacks and Combination Packaging.
- Vehicle Placarding Requirements and Rules.

UNIT THREE: DOCUMENTATION AND REGULATORY RECORD-KEEPING

- The Importance of Accurate and Complete Shipping Papers.
- Step-by-Step Guide to Completing a Bill of Lading for HazMat.
- Shipper's Declaration for Dangerous Goods (Air and Sea).
- Emergency Response Information Requirements.
- Record-Keeping and Document Retention Policies.
- Electronic Documentation and Digital Compliance.
- Common Errors in HazMat Documentation and How to Avoid Them.

UNIT FOUR: SAFE TRANSPORTATION AND SECURITY PROTOCOLS

- Modal-Specific Regulations for Road (ADR/DOT), Air (IATA), and Sea (IMDG).
- Proper Loading, Blocking, and Bracing Techniques.
- Segregation of Incompatible Hazardous Materials.
- HazMat Security Awareness and Threat Identification.

- Developing and Implementing a Transportation Security Plan.
- Procedures for In-Transit Operations and Vehicle Inspections.
- Handling and Transporting Lithium Batteries and Other Special Materials.



UNIT FIVE: EMERGENCY RESPONSE AND INCIDENT MANAGEMENT

- Developing an Emergency Response Plan.
- Initial Actions at the Scene of a Spill or Release.
- Spill Containment and Control Procedures.
- Personal Protective Equipment (PPE) for First Responders.
- Incident Reporting and Notification Requirements.
- Post-Incident Investigation and Corrective Actions.
- Coordination with Emergency Services and Regulatory Agencies.

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:

Considering the increasing complexity of global supply chains, how can organizations proactively balance stringent regulatory compliance for hazardous materials with the commercial pressures for speed and cost-efficiency without compromising safety?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by adopting a holistic and integrated approach to hazardous materials compliance, moving beyond the siloed study of individual regulations. While many programs focus on a single mode of transport, this curriculum synthesizes the core principles and specific requirements of road, air, and sea transport (DOT, IATA, IMDG), providing participants with a comprehensive understanding essential for multimodal supply chains. The academic underpinning of the course is rooted in proactive risk management rather than reactive compliance, teaching participants not just what the rules are, but the safety science and incident-based history that shaped them. We emphasize practical application through realistic scenario-based workshops where participants tackle complex shipping problems, from classifying a new chemical product to planning a secure international shipment. This focus on critical thinking and problem-solving, rather than simple rote memorization, ensures that graduates are not just certified, but are genuinely competent and confident practitioners capable of making sound, safe, and compliant decisions under operational pressure. The curriculum is designed to build leaders in safety who can drive a culture of compliance within their

