Training Course on Dangerous Goods Regulations (DGR)

Professional Development Training Course Outline

Category	Aviation and Airport Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Training Course on Dangerous Goods Regulations (DGR) is meticulously designed to empower professionals with the essential knowledge and practical skills required for the **safe, compliant, and efficient handling, storage, and transportation of hazardous materials**. In today's dynamic global logistics and supply chain landscape, adherence to international and national DGR standards is paramount for **risk mitigation, operational safety, and regulatory compliance**. This program delves deep into the latest IATA DGR manual, ensuring participants are equipped with up-to-date expertise to navigate complex regulatory frameworks and confidently manage dangerous goods across all modes of transport.

Our expert-led DGR training goes beyond theoretical concepts, emphasizing **competency-based learning and practical application** through real-world scenarios and interactive exercises. We focus on fostering a profound understanding of hazard identification, classification, packaging requirements, labeling, documentation, and emergency response protocols. By investing in this critical training, organizations can significantly enhance their **safety culture, minimize incidents, avoid costly penalties, and ensure seamless global trade operations** involving dangerous goods. This course is an indispensable asset for any professional or enterprise committed to **operational excellence and robust safety management** in the hazardous materials domain.

Programme Curriculum

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Course Objectives

1. Master the identification and accurate classification of diverse dangerous goods categories, including **lithium batteries, infectious substances, and radioactive materials**, in accordance with current IATA DGR and ICAO-TI.
2. Understand and apply the latest international and national regulations for dangerous goods transport, ensuring **full compliance with IATA DGR, ICAO Technical Instructions, and relevant national deviations**.
3. Select and apply appropriate **UN-specification packaging, limited quantity, and excepted quantity provisions** for safe and secure containment of hazardous materials.
4. Accurately apply **hazard labels, handling labels, and proper shipping names**, ensuring clear identification and communication of risks.
5. Prepare and verify essential documentation, including the **Shipper's Declaration for Dangerous Goods (DGD) and Air Waybill (AWB)**, for compliant shipments.
6. Develop robust skills for **effective emergency response, spill containment, and incident reporting** in the event of dangerous goods occurrences.
7. Implement proactive **risk assessment methodologies** to identify, evaluate, and mitigate potential hazards associated with dangerous goods operations.
8. Understand and apply **security provisions for dangerous goods** to prevent unauthorized access or interference.
9. Implement best practices for the **safe loading, secure storage, and proper segregation** of incompatible dangerous goods.
10. Understand the principles and application of the **CBTA approach** as mandated by ICAO for dangerous goods training.
11. Learn to identify and address the risks posed by **undeclared or hidden dangerous goods** in cargo and passenger baggage.
12. Optimize dangerous goods handling processes for **enhanced operational efficiency and reduced transit times** while maintaining safety.
13. Explore emerging trends in **sustainable practices and environmental protection** related to dangerous goods transport.

Organizational Benefits

- Significantly reduces the risk of accidents, incidents, and injuries associated with hazardous materials, fostering a proactive safety environment.
- Ensures strict adherence to international and national DGR, avoiding costly penalties, legal liabilities, and operational disruptions.
- Streamlines dangerous goods handling, packaging, and documentation processes, leading to faster turnaround times and reduced errors.
- Equips staff with the necessary knowledge and skills, leading to increased confidence and higher standards of professionalism in their roles.
- Implements robust security measures to protect dangerous goods throughout the supply chain, safeguarding against unauthorized access or theft.
- Demonstrates a commitment to safety and compliance, building greater trust with clients, partners, and regulatory bodies.
- Provides a structured approach to identifying, assessing, and mitigating risks, minimizing potential financial and environmental impacts.
- Facilitates compliant international transportation of dangerous goods, opening up new business opportunities and market access.

Target Audience

1. Shippers & Consignors.
2. Freight Forwarders & Logistics Professionals.
3. Airline & Ground Handling Personnel.
4. Warehouse & Inventory Managers.
5. Cargo & Ramp Agents.
6. Safety & Quality Assurance Personnel.
7. Customs Brokers & Regulatory Affairs Specialists.
8. Emergency Response Teams & Security Personnel.

Course Outline

Module 1: Introduction to Dangerous Goods Regulations (DGR)

- Defining Dangerous Goods: What constitutes hazardous materials and their global impact.
- Overview of International and National Regulations: IATA DGR, ICAO-TI, and national variations.
- Responsibilities of the Shipper, Operator, and other parties involved in transport.
- The Importance of Training and Competency-Based Approach (CBTA).
- Prohibited Dangerous Goods and General Principles.
- **Case Study:** The Lockerbie Bombing ?Çô Illustrating the catastrophic consequences of undeclared dangerous goods and the critical need for strict regulations.

Module 2: Classification of Dangerous Goods

- Understanding the Nine Classes of Dangerous Goods: Explosives, Gases, Flammable Liquids, etc.
- Identification of Proper Shipping Names (PSN) and UN Numbers.
- Subsidiary Risks and the Precedence of Hazards.
- Criteria for Classifying Mixtures and Solutions.
- Use of the List of Dangerous Goods to identify specific articles.
- **Case Study:** Misclassification of a chemical causing a severe fire incident during transit?Çô Highlighting the importance of accurate classification.

Module 3: Dangerous Goods List and Special Provisions

- Navigating the Dangerous Goods List: Columns and their significance.
- Understanding Special Provisions (A-codes) and their impact on packaging and handling.
- Excepted Quantities (EQ) and Limited Quantities (LQ) provisions.
- State and Operator Variations: Differences in national and airline regulations.
- Application of Packaging Instructions based on the Dangerous Goods List.
- **Case Study:** A shipment delayed due to incorrect application of a State Variation ?Çô Emphasizing the need for thorough regulatory review.

Module 4: Packaging Requirements

- General Packaging Requirements: Strength, integrity, and compatibility.
- UN Specification Packaging: Understanding markings and testing requirements.
- Inner, Outer, and Single Packagings: Selection and assembly.
- Overpacks and their marking requirements.
- Packing Group (PG) and its relation to packaging strength.
- **Case Study:** A leaky package due to non-compliant packaging ?Çô Demonstrating the importance of UN-approved packaging.

Module 5: Marking and Labeling

- Requirements for Marking Packages: Proper Shipping Name, UN Number, Shipper/Consignee details.
- Hazard Labels: Application, size, and multiple hazard labeling.
- Handling Labels: Orientation, cryogenic liquid, cargo aircraft only.
- Overpack and Salvage Packaging Marking.
- Legibility and Durability of Markings and Labels.
- **Case Study:** A misrouted shipment due to unclear or missing labels ?Çô Highlighting the role of accurate labeling in efficient logistics.

Module 6: Documentation ?Çô Shipper's Declaration for Dangerous Goods (DGD)

- Purpose and Content of the Shipper's Declaration.
- Completing the DGD: Proper sequence and required information.
- Signature Requirements and Declarations.
- Corrections and Amendments to the DGD.
- Retention of Dangerous Goods Documentation.
- **Case Study:** A DGD rejected by the airline due to errors or omissions ?Çô Demonstrating the financial and operational impact of incorrect documentation.

Module 7: Documentation ?Çô Air Waybill (AWB) & NOTOC

- Relationship between the AWB and the DGD.
- Entering Dangerous Goods information on the Air Waybill.
- Notification to Captain (NOTOC): Purpose and essential information.
- Procedures for providing NOTOC to the flight crew.
- Emergency Response Information on Documentation.
- **Case Study:** An emergency landing triggered by a discrepancy between the AWB and the actual cargo ?Çô Underscoring the critical nature of accurate communication to flight crew.

Module 8: Loading, Storage and Segregation

- General Loading Principles: Securing cargo and preventing movement.

- Segregation of Incompatible Dangerous Goods: Understanding segregation tables.
- Loading Limitations for Passenger and Cargo Aircraft.
- Storage Requirements for Dangerous Goods in Warehouses.
- Damage and Leakage Procedures during Loading/Unloading.
- **Case Study:** An adverse chemical reaction in a cargo hold due to improper segregation?Çô Highlighting the dangers of mixing incompatible substances.

Module 9: Emergency Response Procedures

- Initial Actions in Case of a Dangerous Goods Incident (e.g., spill, fire).
- Understanding Safety Data Sheets (SDS) for hazardous materials.
- Emergency Contact Information and Reporting Requirements.
- Use of Emergency Response Guides (ERG).
- First Aid and Personal Protective Equipment (PPE) for DG Incidents.
- **Case Study:** A prompt and effective response to a chemical spill minimizing environmental damage and injury ?Çô Showcasing the benefits of well-trained emergency teams.

Module 10: Security Aspects of Dangerous Goods Transport

- Dangerous Goods Security Awareness Training.
- Recognizing and Reporting Suspicious Activities.
- Security Plan Requirements for High-Consequence Dangerous Goods.
- Access Control and Physical Security Measures.
- Threat Assessments and Risk Mitigation in Security.
- **Case Study:** A thwarted attempt to misuse dangerous goods for malicious purposes?Çô Emphasizing the importance of vigilance and security protocols.

Module 11: Specific Dangerous Goods - Lithium Batteries

- Classification of Lithium Batteries: Lithium Ion vs. Lithium Metal.
- Packing Instructions for various battery types (e.g., standalone, contained in equipment).
- Marking and Labeling requirements for Lithium Batteries.
- Documentation for Lithium Battery Shipments.
- Specific Limitations and Forbidden Batteries.
- **Case Study:** A recent aircraft incident linked to undeclared or improperly packaged lithium batteries?Çô Highlighting the evolving risks and regulations.

Module 12: Specific Dangerous Goods - Infectious Substances & Radioactive Materials

- Classification of Infectious Substances (Category A & B).
- Packaging, Marking, and Labeling for Infectious Substances.
- Shipping Radioactive Materials: Basic principles and categories.
- Labeling and Documentation for Radioactive Shipments.
- Emergency Preparedness for Biological and Radiological Incidents.
- **Case Study:** The safe transport of critical medical samples requiring strict adherence to infectious substance regulations ?Çô Demonstrating compliance in vital operations.

Module 13: Responsibilities of Persons & Competency-Based Training and Assessment (CBTA)

- Employer and Employee Responsibilities under DGR.
- The Shift to CBTA: Why and How it Impacts Training.

- Elements of a Competency-Based Training Program.
- Assessment Methodologies for Dangerous Goods Competence.
- Maintaining Competency and Recurrent Training Requirements.
- **Case Study:** An organization successfully transitioning to a CBTA model, leading to demonstrable improvements in employee performance and safety metrics.

Module 14: Hidden Dangerous Goods & Passenger/Crew Baggage

- Common Examples of Hidden Dangerous Goods (e.g., camping equipment, spare parts).
- Procedures for Identifying and Handling Suspected Hidden Dangerous Goods.
- Dangerous Goods Carried by Passengers and Crew (e.g., personal aerosols, sporting equipment).
- Exceptions and Limitations for Passenger/Crew Articles.
- Public Awareness Campaigns and Screening Procedures.
- **Case Study:** Discovery of a hidden dangerous good in passenger baggage during screening, preventing a potential inflight incident.

Module 15: Auditing, Compliance & Future Trends in DGR

- Internal Auditing and Compliance Checks for Dangerous Goods Operations.
- Non-Compliance Reporting and Corrective Actions.
- Role of Regulatory Authorities and Enforcement.
- Emerging Technologies impacting DGR: AI, IoT for tracking, automated inspections.
- Future Revisions and Updates to the IATA DGR and ICAO-TI.
- **Case Study:** An organization successfully passing a regulatory audit due to robust internal compliance programs and well-trained staff.

Training Methodology

Our Dangerous Goods Regulations (DGR) training utilizes a dynamic and interactive approach designed for maximum knowledge retention and practical application. This competency-based training (CBTA) methodology integrates:

- **Expert-Led Presentations:** Engaging and concise delivery of complex regulatory information by industry experts.
- **Interactive Discussions:** Fostering participant engagement and knowledge sharing through open dialogue and Q&A sessions.
- **Practical Exercises & Workshops:** Hands-on activities including DGD completion, packaging exercises, and hazard identification scenarios.
- **Real-World Case Studies & Simulations:** Analyzing past incidents and applying DGR principles to simulated scenarios to develop critical decision-making skills.
- **Multimedia Resources:** Utilization of videos, infographics, and interactive tools to enhance understanding.

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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