



## SUMMARY

This course provides a complete overview of Dangerous Goods practises and procedures, including definitions, limitations, identification and use of tables, and labelling and marking. Special emphasis is provided on undeclared or hidden items, storage and loading procedures, pilots' notification and provisions for passengers and crew.

The course is based on the 61<sup>st</sup> Edition of the IATA Dangerous Goods Handbook. The included lessons meet the training requirements of the ICAO Technical Instructions and the IATA Dangerous Goods Regulations (DGR) for Category 10.

## TARGET POPULATION

The Pelesys Dangerous Goods course is designed for flight crew, dispatchers and load planners requiring initial or recurrent training in the transportation of dangerous goods by aircraft.

## REGULATORY COMPLIANCE

- ICAO / EASA / FAA / Transport Canada
- Based on IATA DGR Handbook 61<sup>st</sup> Edition valid January 1<sup>st</sup>, 2020, through December 31<sup>st</sup>, 2020

Versions Available:  
Standard

Course Length:  
2 h 30 min

## LESSON 01: General Philosophy

In this lesson we will cover:

- National Security Regulations
- Definition of DG
- Classification Criteria
- Regulatory Template Development
- Applicability of DGR
- Exemptions
- Exceptions
- Shipper's Responsibilities
- Operator's Responsibilities
- Information to Employees
- Training Requirements
- Risk Management
- IATA Guidance Material
- Guidance Material – Lithium Batteries
- Significant Changes Documentation

## LESSON 02: Limitations

In this lesson we cover:

- Detailed Limitations
- Limitation Groups
- Acceptable Dangerous Goods
- Forbidden Dangerous Goods
- Hidden Dangerous Goods
- Dangerous Goods Carried by Passengers or Crew
- Transport of Dangerous Goods by Mail
- Dangerous Goods in Operator's Property
- Dangerous Goods in Excepted Quantities
- Dangerous Goods in De Minimis Quantities
- State and Operator Variations

## LESSON 03: List of Dangerous Goods

In this lesson we cover:

- List of Dangerous Goods
- Proper Shipping Names
- DGR Identification Section
- Generic and N.O.S. Items
- UN Identification Number
- Class or Division
- Labels
- Packing Groups
- Excepted Quantity Code

- Limited Quantity – Packing Instructions
- Limited Quantity – Maximum Net Quantity
- Packing Instructions
- Cargo Aircraft Only
- Special Provisions
- Emergency Action Codes
- Action Drill Codes

## LESSON 04: Marking and Labelling

In this lesson we cover:

- Hazard and Handling Labels
- Dangerous cargo Identification
- Class and Division Hazard Labels
- Secondary Hazard Labels
- Handling Labels
- Magnetized Material
- Dry Ice
- Keep Away from Heat Labels
- Radioactive Material – Excepted Quantities
- Cryogenic Liquids
- Lithium Batteries
- Infectious Substances – Category B -1
- Infectious Substances – Category B -2
- Criticality Safety Index
- Excepted Quantities
- Limited Quantity Mark
- GMMO and GMO
- Environmentally Hazardous Substances
- Wheelchair Labels
- Required Markings
- Secondary Hazard
- Packaging Design and Specification
- Forbidden in Passenger Aircraft
- Orientation Labels
- Overpacks
- GHS
- Labels – Unit Load Devices

## LESSON 05: Recognition of Undeclared Dangerous Goods

In this lesson we cover:

- Hazards
- Provision of Information to Staff
- Hidden Dangerous Goods
- Check-in Staff
- Dangerous Goods in Baggage
- Consumer Warning Labels

- Presence of GHS on Hidden or Undeclared Dangerous Goods
- Permitted Items
- Flight Crew
- Reporting Undeclared Dangerous Goods

## LESSON 06: Storage, Handling and Loading

In this lesson we cover:

- Damage Prevention
- Package Inspection
- Disposal of Damaged or Leaking Dangerous Goods
- Replacement Labels
- Packages – Physical Separation
- Packages – Segregation Requirements
- Radioactive Materials – Special Procedures
- Separation of Radioactive Items
- Limitations on TI, CSI and Radiation Levels
- Radioactive Materials – Loading
- Transport Index – Example
- Transport Index – Grouped Packages
- Total Transport Index
- Transport Index – Separated Packages
- Contaminated Cargo or Baggage
- Radioactive Contamination
- Solid Dry Ice
- Operations Manual – Load Limitations
- Live Animals with Dangerous Goods
- Expandable Polymetric Beads
- Organic Peroxides/ Self-Reactive Substances
- Loading of Magnetized Material
- Unpressurized Cargo Holds
- Exceptions for Cargo Aircraft Only

## LESSON 07: Pilot's Notification

In this lesson we cover:

- IATA DGR Requirements
- Notice to Company Personnel
- Notification of Lithium Battery Shipments
- Filed Copy
- On Board Aircraft
- Transit Stations
- Destination Station
- NOTOC Requirements
- Dangerous Goods Not Required on NOTOC
- Departure/Destination Stations
- Air Waybill/Shipping Name

- Emergency Codes
- Subsidiary Hazards
- Packing Instructions
- Radioactive Materials
- Packing Groups
- Interline Message Procedure Codes (IMP Codes)
- Cargo Aircraft Only
- ULD Number
- Loading Position
- Loading Supervisor Signoff
- Captain's Signature

## LESSON 08: Provisions for Passengers and Crew

In this lesson we cover:

- Restrictions
- Categorization of Dangerous Goods
- IATA Guidance Material – Electronic Cigarettes
- eCigarettes and PEDS with Lithium Batteries
- Spare/Loose Batteries
- Lithium Powered Electronic Devices
- PEDS (Including Medical Devices) Containing Batteries
- Dangerous Goods Information
- Warning Notices
- Check-in Staff

## LESSON 09: Dangerous Goods Emergency Response

In this lesson we cover:

- ICAO Emergency Response Guide (ERG)
- Definition of a Dangerous Goods Accident or Incident
- Emergency Checklists
- Example – Cargo Fire
- Cargo Fire Checklist
- Aircraft / Company Checklists
- Land ASAP
- Determine Fire Source
- DG in Cargo Compartments
- Emergency Response Drill Codes
- Proper Shipping Name / UN Number
- Infectious Substances
- ATC Notification
- After Landing
- Emergency Response Information
- Extinguishing a Lithium Battery Fire

## LEARNING TIME AND RUN TIME

This course has a learning time of: (run time plus additional time per page to account for understanding learning points)

- 2 hr 30 min

This course has a run time of: (the base time for each page to be completed)

- 1 hr 00 min

## Exam Generation System (EGS) Banked Questions

The total amount of banked questions for this course is:

Lesson Title	Standard Questions
General Philosophy	18
Limitations	17
Identification of Dangerous Goods	20
Marking and Labelling	20
List of Dangerous Goods	19
Storage, Handling and Loading	26
Pilot's Notification	21
Provisions for Passengers and Crew	18
Recognition of Undeclared Dangerous Goods	19
Storage and Loading Procedures	26
Dangerous Goods Emergency Response	23
	<b>217</b>

## REFERENCE MATERIAL

The course is based on the 61<sup>st</sup> Edition of the IATA Dangerous Goods Handbook. The included lessons meet the training requirements of the ICAO Technical Instructions and the IATA Dangerous Goods Regulations (DGR).

### ICAO

- IATA DGR Handbook 61<sup>st</sup> Edition valid January 1<sup>st</sup>, 2020, through December 31<sup>st</sup>, 2020
- ICAO Doc 9284 Technical Instructions for the Safe Transport of Dangerous Goods by Air

### EASA

- AMC1 SPA.DG.105(a)

### FAA

- AC 120-40
- AC 1210-37A
- AC 91-76A
- AC 121-27

**TC**

- CAN / CGSB-43.151
- CAN / CGSB-43.150
- CAN / CGSB-43.126

The operator remains responsible for obtaining approval from the regulatory authority.

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