



# Shipping Lithium Batteries by Air

2-day classroom course (16 hours)

This course can be customized for your company and delivered at the location of your choice.

Acquire the skills and knowledge to pack and ship lithium ion and lithium metal cells and batteries by air, in compliance with the regulatory requirements of the ICAO Technical Instruction and IATA Dangerous Goods Regulations (DGR). Over two days, you will examine the classification and identification of dangerous goods, with a particular focus on lithium batteries, and learn how to complete the necessary documentation, marking, labelling and packaging of shipments. You will learn about the limitations to transport lithium batteries by air, as well as emergency procedures in the event of an incident or accident. This course is based on the content of the Lithium Battery Shipping Regulations (LBSR), a comprehensive guide designed for shippers and packers to meet their safety obligations related to the safe transport of dangerous goods by air. This course is recommended for Category 1, 2, 3 personnel as per Table 1.5.A of the IATA DGR.

## Objectives

Upon completion of this course you will be able to:

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Understand the basis and applicability of the IATA DGR

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Apply the states and operation variations

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Identify and classify the 9 hazard classes including provisions of lithium batteries

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Apply the applicable special provisions

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Apply the provisions for packing, marking and labelling of shipments containing lithium batteries

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Complete transport documentation (dangerous goods documentation and air waybill - AWB) and any other accompanied documents related to the transport of lithium batteries

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State the relevant emergency response and reporting procedure

## Target audience

- Manufacturers of cells and batteries
- Battery assemblers
- Shippers and packers
- Other operators handling lithium batteries

## Key topics

- Definition of dangerous goods (DG)
- Application of the IATA DGR
- Responsibilities of shippers, packers and freight forwarders
- Limitations applicable to the transport of DG by air
- Classification of the 9 hazard classes including the provision of lithium batteries
- Identification of special provisions
- Packing provisions
- Marking and labelling requirements
- Required transport documentation including DGD and AWB
- Dangerous goods emergency response and reporting requirements

## Activities

- Case studies and final exam

## Materials

The latest edition of the Lithium Battery Shipping Regulations (LBSR) is included in the course materials

## Prerequisites

There are no prerequisites for this course.

## Recommended level

- Entry-level
- Intermediate

## Certificate awarded

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An IATA Certificate is awarded upon successful completion of the course and an assessment

## Table of contents

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### Introduction

- Definition of DG
- Basis and aspect of the IATA DGR
- Code symbols and abbreviations

### Applicability

- Application of the DGR
- Approval, exemption and exceptions
- Shippers, packers, and freight forwarder responsibilities
- Training requirements

### Limitations I

- Forbidden DG
- Hidden DG
- DG by post
- DG in operatory property
- DG in limited quantities

### Classification

- The 9 hazard classes with Packing Group (PG) criteria
- Definition of batteries
- Types and examples of batteries
- Emphasis on the UN manual of Tests and Criteria

### Identification

- The blue pages
- List the UN and Proper Shipping Name (PSN) for batteries
- Special provision related to batteries

## Associated diplomas

You may also apply this course toward an IATA Diploma in [Dangerous Goods Operations](#) or [Dangerous Goods Quality Specialist](#)

### Packing

- General packing requirements and type of packaging
- Packing instruction for batteries and limitations
- Determine when to apply section IA, IB and II

### Marking and labelling

- Apply marking and labelling for any given shipment
- Apply the correct marking and labeling for batteries

### Documentation

- How to complete a DG documentation and AWB
- Additional documents related to batteries
- Checklist samples

### Limitations II

- DG carried by passengers and crew
- Provisions of expected quantities
- States and operators' variations

### Emergency procedures

- General emergency procedures
- Reporting incidents and accidents
- Final examination

 [www.iata.org/training-tcgp52](http://www.iata.org/training-tcgp52)

Please contact us at [www.iata.org/training-contact](http://www.iata.org/training-contact) if you have any questions