

DANGEROUS GOODS

JEPPESEN FLIGHT CREW TRAINING COURSE LAYOUT & SYLLABUS

COURSE LAYOUT

INTRODUCTION

This course will train professional aviation personnel on all relevant aspects, requirements and procedures involved in transporting dangerous goods by air. It meets the specific regulations set forth by the Federal Aviation Administration (FAA), the International Civil Aviation Organization (ICAO), and the International Air Transport Association (IATA). The rules governing dangerous goods carriage are harmonized worldwide by these agencies. This course also satisfies European Regulations under EU OPS 1, Subpart R.

BACKGROUND

Historically, U.S. regulations have allowed for the handling and transport of dangerous goods regulated under Title 49 of the Code of Federal Regulations (49 CFR) part 171 through 180 only if the air carrier conducted training in accordance with 14 CFR part 121, § 121.401 and part 135, § 135.323, as applicable. Once a carrier completed required training of appropriate personnel and incorporated appropriate procedures into its operations manual, the FAA considered the carrier implicitly authorized to carry hazmat. The required training included a one-time initial and annual recurrent training program. The FAA has since changed the required training timeline to a two year cycle.

COMPONENTS

Following the regulatory requirements and parameters described above, the Dangerous Goods course covers the following lessons:

- General philosophy in the carriage of dangerous goods
- Limitations of dangerous goods
- List of dangerous goods
- Labels and markings
- Storage and loading procedures
- Pilot's notification requirements
- Provisions for passengers and flight crew
- Emergency procedures

DURATION

The course takes an average student approximately 1.25 hours to complete including the required exam.

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COURSE LAYOUT *(CONTINUED)*

FEATURES & FUNCTIONS

The ultimate goal of Jeppesen is to provide courseware that increases efficiencies. So this module is interactive, engaging and practical, using scenarios that emphasize critical decision-making in operations.

There are multiple topics within a lesson and multiple lessons within the course (see details below). At the end of each topic, you answer optional questions in order to determine your level of understanding. You may also quit a lesson or an exam in the middle and return to the same location at a later time. Finally, you may review the content as many times as you like during the subscription year.

At the end of the course, there is a required exam. The exam presents multiple randomized questions from a pool of possible questions. To pass, you must score 80% or better. At the end of the exam, you and your manager may review the exam at the question level in order to correct it to 100%.

This course provides helpful links to the many resources such as the Segregation Table provided by CFR 49 175.78.

CERTIFICATE OF COMPLETION

The Jeppesen Learning Center automatically generates a certificate of completion once you complete all instructional material and pass the exam at 80% or better. The system sends the certificate via email and you have access to it online as well.

LEARNING MANAGEMENT SYSTEM & ADMINISTRATION

The Jeppesen Learning Center maintains training history records for you and your manager. You may run a training history report at any time during your subscription year to validate your training records.

ENROLLMENT

To enroll in the course, please contact your local Jeppesen Regional Sales Manager (RSM). If you do not know your Jeppesen RSM, please contact:

The Americas

800.553.7750 or 303.328.4244 or e-mail captain@jeppesen.com

Europe and Asia

+49 6102 5070 or e-mail fra-services@jeppesen.com

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COURSE SYLLABUS

LESSON 1: GENERAL PHILOSOPHY IN THE CARRIAGE OF DANGEROUS GOODS

After completing lesson 1, you will be able to:

- Define dangerous goods
- Identify examples of dangerous goods
- Identify the governing bodies that regulate the transport of dangerous goods
- Identify the regulations for transporting dangerous goods
- Describe the required dangerous goods training

Topics include:

- What are dangerous goods
- Examples of dangerous goods
- Governmental bodies responsible for writing and enforcing dangerous goods regulations
- The documents making up the regulations of dangerous goods
- Dangerous goods training for employees

LESSON 2: LIMITATIONS OF DANGEROUS GOODS

After completing lesson 2, you will be able to:

- Define the categories of dangerous goods
- Identify the types of dangerous goods that are excluded from the Dangerous Goods Regulations
- Use the IATA Dangerous Goods Regulations Table 2.3.A

Topics include:

- The limitations, for air transport, of which materials are acceptable, forbidden, forbidden unless exempted and excluded from carriage on an aircraft
- Types of excluded dangerous goods
- Using the IATA Dangerous Goods Regulations Table 2.3.A

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COURSE SYLLABUS *(CONTINUED)*

LESSON 3: LIST OF DANGEROUS GOODS

After completing lesson 3, you will be able to:

- Describe how to identify dangerous goods
- Describe how dangerous goods are classified
- Define the dangerous goods classes
- Use resources for lists of dangerous goods including hazardous materials tables (HMT) and the IATA Dangerous Goods List

Topics include:

- What are dangerous goods
- The classifications of dangerous goods
- How to identify dangerous goods
- How to use the resources such as HMT and the IATA Dangerous Goods Regulations

LESSON 4: LABELS AND MARKINGS

After completing lesson 4, you will be able to:

- Describe package marking specifications
- List special marking requirements
- Identify package label requirements
- Identify package label specifications

Topics include:

- How markings must be applied and designed
- Marking specifications including the proper shipping name, shipper and consignee identification, and quantity limitations
- Special marking requirements for explosives, radioactive materials, and so on

LESSON 5: STORAGE AND LOADING PROCEDURES

After completing lesson 5, you will be able to:

- Describe loading restrictions for passenger aircraft
- Identify how to load special materials
- Identify stowage compatibility of dangerous goods
- Explain how to stow specialized materials

Topics include:

- Loading restrictions for passenger aircraft
- Loading specialized materials such as magnetized material and dry ice
- Storage compatibility
- The use of the Segregation Table provided in CFR 49 175.78
- Requirements for storing specialized materials such as liquid dangerous goods

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COURSE SYLLABUS *(CONTINUED)*

LESSON 6: PILOT'S NOTIFICATION REQUIREMENTS

After completing lesson 6, you will be able to:

- Explain the notification requirements to the pilot in command (PIC)
- Describe the various roles and responsibilities for notifying the pilot in command of any dangerous goods onboard

Topics include:

- Pilot's notification contents
- Use of the NOTOC
- Role of the operator
- Role of the cargo loader
- Role of the pilot in command
- Role of the ground crew

LESSON 7: PROVISIONS FOR PASSENGERS AND FLIGHT CREW

After completing lesson 7, you will be able to:

- Describe how to inform passengers on the types of forbidden dangerous goods
- Describe the passenger check-in procedures completed by the crew

Topics include:

- Signage requirements for passengers
- Confirming with passengers that they are not carrying dangerous goods

LESSON 8: EMERGENCY PROCEDURES

After completing lesson 8, you will be able to:

- Use the ICAO Emergency Response Guide to complete emergency procedures
- Report accidents and incidents

Topics include:

- Using the ICAO Emergency Response Guide
- Following checklists
- Reporting incidents and accidents