

# PERFORMANCE

## JEPPESEN FLIGHT CREW TRAINING COURSE LAYOUT & SYLLABUS

### COURSE LAYOUT

#### INTRODUCTION

This course will train professional aviation personnel on the principles and methods for determining weight and balance, and runway limitations for takeoff and landing. The course emphasizes practical concepts and critical decision-making to enable students to retain and use the information in the real world.

#### BACKGROUND

Per the Code of Federal Regulations Title 14 Parts 91 (§ 91.1065 and § 91.1101) and 135 (§ 135.345 and § 135.351), initial, transition, recurrent, and upgrade ground training for pilots must include instruction in at least the following, as applicable to their duties:

Principles and methods for determining weight and balance, and runway limitations for takeoff and landing.

#### COMPONENTS

Following the regulatory requirements and parameters described above, the Airport Operations course covers the following lessons.

- Land and Hold Short Operations (LAHSO)
- Low Visibility Operations
- Runway Incursions

#### DURATION

The course takes an average student approximately 1.5 hours to complete including the required exam.

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## COURSE LAYOUT *(CONTINUED)*

### FEATURES & FUNCTIONS

It is the ultimate goal of Jeppesen to provide courseware that increases efficiencies. Thus this module is designed in an interactive, engaging and practical fashion 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). Within each topic, students answer optional questions and answers in order to determine their level of understanding. Students may also quit a lesson or an exam in the middle and return to the same location at a later time. Finally, students may review the content as many times as is desirable 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, the student must score 80% or better. At the end of the exam, the student and his or her manager may review the exam at the question level in order to make the exam correctable to 100%.

### CERTIFICATE OF COMPLETION

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

### LEARNING MANAGEMENT SYSTEM & ADMINISTRATION

The Jeppesen Learning Center maintains training history records for students and their managers. 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 303.3284244 or e-mail [captain@jeppesen.com](mailto:captain@jeppesen.com)

#### **Europe and Asia**

+49 6102 5070 or e-mail [fra-services@jeppesen.com](mailto:fra-services@jeppesen.com)

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## COURSE SYLLABUS

### LESSON 1: TAKEOFF AND CLIMB

After completing the topic on takeoff and climb, you will be able to:

- Define the characteristics that affect an airplane's performance
- Describe the factors that affect maximum allowable takeoff weight
- Perform the appropriate rejected-takeoff procedure
- Define balanced field
- Explain obstacle clearance requirements and climb gradients

Topics include:

- Takeoff Limit Weights
  - Maximum Certificated Takeoff Weight
  - Brake Energy Limit Weight
  - Takeoff Field Length Limit Weight
- Accelerate-stop Certification Criteria
- Rejected takeoff procedures
- Balanced Field Length
- The relationship between  $V_1$  and takeoff weight
- Obstacle clearance requirements
- Climb segment gradients

### LESSON 2: ENROUTE AND LANDING

After completing the lesson on enroute and landing, you will be able to:

- Ensure that your airplane's takeoff weight meets enroute engine out requirements
- Describe each of the four approach and landing limit weights

Topics include:

- Calculating enroute performance requirements using the terrain clearance method
- Calculating enroute performance requirements using the driftdown methods
- Maximum certificated landing weight
- Landing runway limit weight
- Approach climb limit weight
- Landing climb limit weight