

REPUBLIC AIRLINES ERJ 170/175 LIMITATIONS PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

<https://republicairerj170175lim.examzify.com>



Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

SAMPLE

Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

SAMPLE

- 1. What is the maximum fuel capacity of the ERJ 170?**
 - A. 9,500 lbs
 - B. 10,000 lbs
 - C. 10,670 lbs
 - D. 11,000 lbs
- 2. At what altitude is the APU maximum start altitude?**
 - A. 25,000 feet
 - B. 30,000 feet
 - C. 35,000 feet
 - D. 32,000 feet
- 3. What is the maximum 30-second engine thrust rating for the ERJ 170/175?**
 - A. 7,500 lbs thrust
 - B. 8,000 lbs thrust
 - C. 8,729 lbs thrust
 - D. 9,000 lbs thrust
- 4. What is the maximum landing weight for the ERJ 175?**
 - A. 72,310 lbs
 - B. 74,957 lbs
 - C. 75,177 lbs
 - D. 82,011 lbs
- 5. What is the maximum allowable weight for cargo in the ERJ 170/175 bulk cargo compartment?**
 - A. 800 lbs
 - B. 1,000 lbs
 - C. 1,200 lbs
 - D. 1,500 lbs
- 6. When should landing speeds be set for ice accretion on the ERJ 170/175?**
 - A. Always when landing
 - B. Only in summer
 - C. During detected icing conditions
 - D. When passengers are alerted

- 7. What is the maximum crosswind component for takeoff?**
- A. 25 knots
 - B. 30 knots
 - C. 35 knots
 - D. 40 knots
- 8. What is the maximum number of passenger seats in the ERJ 175?**
- A. 70 seats
 - B. 75 seats
 - C. 78 seats
 - D. 80 seats
- 9. What is the airline-specific dry ice limit for American Eagle regarding packages?**
- A. Up to 50 lbs per aircraft
 - B. 5.5 lbs per package or up to 50 lbs
 - C. 7 lbs per package
 - D. 5 lbs per package
- 10. What is the maximum crosswind limit for RCC 1 (Poor) conditions?**
- A. 8 knots
 - B. 6 knots
 - C. 5 knots
 - D. 7 knots

Answers

SAMPLE

1. C
2. B
3. C
4. C
5. B
6. C
7. C
8. C
9. B
10. A

SAMPLE

Explanations

SAMPLE

1. What is the maximum fuel capacity of the ERJ 170?

- A. 9,500 lbs
- B. 10,000 lbs
- C. 10,670 lbs**
- D. 11,000 lbs

The ERJ 170 has a maximum fuel capacity of 10,670 pounds, which is the correct choice. This capacity is essential for understanding the aircraft's range and operational limits, as it directly influences how far the plane can fly on a single tank of fuel. The aircraft's design incorporates this specific fuel capacity to optimize performance, ensuring it is suitable for short to medium-haul flights typical of regional airlines. Having an accurate understanding of fuel capacity is crucial for flight planning, as it helps pilots calculate weight and balance, make informed decisions regarding load limits, and determine necessary fuel stops for longer routes.

2. At what altitude is the APU maximum start altitude?

- A. 25,000 feet
- B. 30,000 feet**
- C. 35,000 feet
- D. 32,000 feet

The maximum start altitude for the Auxiliary Power Unit (APU) in the ERJ 170/175 is set at 30,000 feet. This altitude limit is critical because it ensures that the APU has sufficient air density and performance capabilities to start and function effectively. Beyond this altitude, the APU may not receive enough airflow to start properly, which could lead to failure in initiating the APU or inadequate power generation for electrical systems and bleed air systems during flight. Understanding these limitations is essential for flight crews to maintain operational safety and efficiency, especially during high-altitude operations where a reliable power source is necessary for aircraft systems.

3. What is the maximum 30-second engine thrust rating for the ERJ 170/175?

- A. 7,500 lbs thrust
- B. 8,000 lbs thrust
- C. 8,729 lbs thrust**
- D. 9,000 lbs thrust

The maximum 30-second engine thrust rating for the ERJ 170/175 is indeed 8,729 lbs thrust. This rating is a critical performance specification that allows the aircraft to deliver increased thrust for short durations, particularly during takeoff or for emergency situations, ensuring that the aircraft can maintain safe flight profiles under demanding conditions. This thrust rating is based on the capabilities and certifications of the engines used in the ERJ 170/175, specifically the GE CF34-8E engines, which are designed to handle this level of output for limited periods without risking engine integrity. Other options, while they may appear plausible, do not reflect the actual engineering specifications for the aircraft's engines. Understanding the correct thrust rating not only reinforces knowledge of performance limitations but also emphasizes operational safety practices during flight planning and execution.

4. What is the maximum landing weight for the ERJ 175?

- A. 72,310 lbs
- B. 74,957 lbs
- C. 75,177 lbs**
- D. 82,011 lbs

The maximum landing weight for the ERJ 175 is 75,177 lbs. This limitation is critical for ensuring the aircraft can safely land without exceeding structural and operational constraints. Landing weight is a key factor that influences the aircraft's performance during landing phases, including stall speed, landing distance, and overall aircraft integrity. Adhering to this limitation helps prevent potential structural damage or instability during the landing process, particularly under various operational and environmental conditions. Keeping the weight below this specified limit ensures that the aircraft behaves predictably and safely during these critical phases of flight. Understanding and adhering to maximum landing weight is essential for pilots and flight operations personnel to promote safety and compliance with operational regulations.

5. What is the maximum allowable weight for cargo in the ERJ 170/175 bulk cargo compartment?

- A. 800 lbs
- B. 1,000 lbs**
- C. 1,200 lbs
- D. 1,500 lbs

The correct maximum allowable weight for cargo in the ERJ 170/175 bulk cargo compartment is 1,000 lbs. This limitation is specifically outlined in the aircraft's operating manual and is crucial for ensuring safety and compliance with load distribution requirements. Exceeding this weight could compromise the aircraft's performance characteristics, such as balance and structural integrity during flight. Each aircraft has defined limitations to maintain optimal handling, ensure safety during takeoff and landing, and prevent excessive strain on the airframe and landing gear. Adhering to the maximum cargo weight is essential for maintaining these safety standards and ensuring that the aircraft operates within its designed parameters. This correct weight limit reflects the balance needed for safe flight and operational efficiency of the ERJ 170/175. Knowing the maximum cargo weight helps flight crews plan their loads appropriately, which is critical for performance calculations and flight safety.

6. When should landing speeds be set for ice accretion on the ERJ 170/175?

- A. Always when landing
- B. Only in summer
- C. During detected icing conditions**
- D. When passengers are alerted

Landing speeds should be set for ice accretion during detected icing conditions. This is crucial because ice can significantly degrade an aircraft's aerodynamic performance, affecting lift, drag, and stall speed. Icing conditions can lead to an increase in required landing speeds to ensure safe operations, as the aircraft may require greater speed to maintain control and prevent a stall during landing. Properly adjusting landing speeds when icing conditions are present helps in mitigating risks associated with reduced control effectiveness and longer landing distances, which could jeopardize the landing. This practice emphasizes the importance of situational awareness and responding to environmental factors that might affect aircraft performance. Determining the need for increased landing speeds based solely on passenger awareness or operating during summer does not take into account the variable nature of weather conditions. Also, setting speeds continuously when landing would be inappropriate since it does not consider the necessity of adjusting protocols based on ice accumulation, which can vary throughout the year or during different flight conditions.

7. What is the maximum crosswind component for takeoff?

- A. 25 knots
- B. 30 knots
- C. 35 knots**
- D. 40 knots

The maximum crosswind component for takeoff on the ERJ 170/175 is specified as 35 knots. This limitation is critical for ensuring safe aircraft performance during takeoff operations. Exceeding this crosswind limit can significantly affect the controllability of the aircraft, particularly during the takeoff roll and initial climb phase when the aircraft is still closely aligned with the runway. The specified limit takes into account the aircraft's design characteristics, such as its wing configuration and control surface effectiveness, which can vary in response to wind conditions. This limitation helps pilots maintain optimal control and minimize the risk of losing directional stability due to strong crosswinds. Understanding this limitation is key for pilots as it ensures that they make informed decisions regarding takeoff in varying weather conditions, thereby enhancing safety and operational efficacy during flight operations.

8. What is the maximum number of passenger seats in the ERJ 175?

- A. 70 seats
- B. 75 seats
- C. 78 seats**
- D. 80 seats

The maximum number of passenger seats in the ERJ 175 is 78. This figure is established by the aircraft's design, which allows for a standard seating configuration in a 2-2 arrangement in the economy class. The configuration is designed to maximize comfort while also providing sufficient space for a significant capacity of passengers. The ERJ 175 is commonly used for regional routes and the seating capacity of 78 is within the framework set by manufacturers and regulatory authorities to ensure safety and compliance with operational requirements. Understanding the aircraft's limitations is crucial for pilots and operators to ensure adherence to regulations and to optimize performance during flight operations. The other options reflect configurations that either exceed typical operational limits or do not align with standard industry practices for this specific model. Ensuring accurate knowledge of seating capacity helps in planning for weight and balance, passenger service, and overall operational efficiency.

9. What is the airline-specific dry ice limit for American Eagle regarding packages?

- A. Up to 50 lbs per aircraft
- B. 5.5 lbs per package or up to 50 lbs**
- C. 7 lbs per package
- D. 5 lbs per package

The airline-specific dry ice limit for American Eagle stipulates that each package can contain a maximum of 5.5 pounds of dry ice, but the total amount per aircraft must not exceed 50 pounds. This is an important regulation designed to ensure safety on board, as dry ice can release carbon dioxide gas, which can be hazardous in large quantities in the confined space of an aircraft. By allowing 5.5 pounds per package, it strikes a balance between accommodating sufficient dry ice for the shipping of perishables or other temperature-sensitive goods while still maintaining safety standards. The limit of 50 pounds per aircraft ensures that the total weight of dry ice is controlled, preventing any potential risks associated with excessive carbon dioxide buildup during flight. This regulatory framework helps to ensure that air transport remains safe for crew and passengers while still enabling the transport of goods that may require refrigeration or special handling.

10. What is the maximum crosswind limit for RCC 1 (Poor) conditions?

A. 8 knots

B. 6 knots

C. 5 knots

D. 7 knots

The maximum crosswind limit for RCC (Runway Condition Code) 1, which indicates poor runway conditions, is established at 8 knots. This limit is put in place to ensure safety during takeoffs and landings when runway surfaces are compromised, often due to factors like ice, snow, or standing water. In RCC 1 conditions, the increased risk of reduced braking performance and potential aircraft control issues due to slippery surfaces necessitates a lower threshold for crosswind operations. The maximum of 8 knots is designed to limit the aircraft's susceptibility to uncontrollable lateral drift or instability, thus enhancing safety for both pilots and passengers. While other limits might be lower for different RCC conditions, 8 knots is specifically set to maintain adequate control in the challenging conditions represented by RCC 1, ensuring that pilots have a clear and operationally safe guideline to follow.

SAMPLE

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://republicairerj170175lim.examzify.com>

We wish you the very best on your exam journey. You've got this!

SAMPLE