

TEXAS CDL AIR BRAKES PRACTICE TEST (SAMPLE)

STUDY GUIDE



Prepare with structure. Pass with confidence



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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

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- 1. When should parking brakes be used in air brake vehicles?**
 - A. During all driving conditions
 - B. Only during night driving
 - C. Whenever the vehicle is parked
 - D. When the vehicle is idling
- 2. Which pressure range indicates that a single brake system may require adjustment?**
 - A. 60-80 psi
 - B. 70-90 psi
 - C. 90-110 psi
 - D. 150-160 psi
- 3. At what pressure does the governor stop pumping air?**
 - A. 110 psi
 - B. 120 psi
 - C. 125 psi
 - D. 130 psi
- 4. What happens if your air brake system is not drained regularly?**
 - A. The braking system may freeze in cold weather
 - B. Sludge can clog system valves
 - C. Your vehicle's braking efficiency will improve
 - D. The system will require frequent repairs
- 5. What is the proper technique for descending long grades with air brakes?**
 - A. Apply brakes hard and maintain a steady pressure.
 - B. Apply brakes just hard enough to reduce speed to 5 mph below safe speed, then release until back to safe speed.
 - C. Keep the brakes constantly engaged to prevent rolling.
 - D. Stab brake intermittently to maintain speed.

- 6. What does air compression rely on in air brake systems?**
- A. The vehicle's alternator
 - B. Heat generated by the engine
 - C. Air pressure gauges
 - D. The air compressor and governor
- 7. What does the air compressor governor control?**
- A. The temperature of the air
 - B. When the air compressor pumps air
 - C. The volume of air in the tank
 - D. The speed of the vehicle
- 8. At what pressure is the safety valve in the air compressor tank set to open?**
- A. 100 psi
 - B. 80 psi
 - C. 150 psi
 - D. 200 psi
- 9. What does "full brake application" mean in air brake terminology?**
- A. Applying enough air pressure to fully engage the braking mechanism
 - B. Only using the trailer brakes
 - C. Gradual reduction in speed
 - D. Releasing all brake pressure
- 10. What is the maximum allowable crack length in brake drums or discs?**
- A. No cracks allowed
 - B. Cracks shorter than a quarter of the friction area width
 - C. Cracks longer than half the width of the friction area
 - D. Cracks longer than a quarter of the width of the friction area

Answers

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

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Explanations

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1. When should parking brakes be used in air brake vehicles?

- A. During all driving conditions
- B. Only during night driving
- C. Whenever the vehicle is parked**
- D. When the vehicle is idling

Parking brakes should be used whenever the vehicle is parked to ensure that the vehicle remains stationary and does not roll away. This is particularly important for air brake vehicles, as they rely on a different mechanism for regular braking. Using parking brakes helps to secure the vehicle, especially on inclines or uneven surfaces where gravity could cause it to move. It's a critical safety measure that prevents accidents and is a legal requirement in many jurisdictions. The other options suggest scenarios where parking brakes may not be appropriate or necessary. Like the assertion that parking brakes should be used during all driving conditions is impractical; they are specifically designed for parking. Similarly, suggesting use only during night driving overlooks the necessity of securing a parked vehicle at any time of day. Lastly, the idea of utilizing parking brakes when the vehicle is idling is not ideal as idling does not constitute parking, leading to potential confusion about the proper functioning of the vehicle's brake systems.

2. Which pressure range indicates that a single brake system may require adjustment?

- A. 60-80 psi
- B. 70-90 psi**
- C. 90-110 psi
- D. 150-160 psi

The pressure range that indicates a single brake system may require adjustment is 70-90 psi. This range is concerning because it suggests that the brake system may not be functioning optimally. In air brake systems, the ideal operating pressure should typically be above 90 psi for effective braking performance. If the pressure is consistently below this threshold, it could indicate a need for adjustments or maintenance to ensure that the brakes engage properly and safely. Maintaining the correct air pressure in a braking system is crucial for responsiveness and effectiveness. If tire pressure is too low within the specified range, it can affect the system's ability to apply sufficient force and could lead to longer stopping distances or brake failure. Therefore, a pressure reading in this range prompts drivers to assess their braking system to prevent potential safety issues on the road.

3. At what pressure does the governor stop pumping air?

- A. 110 psi
- B. 120 psi
- C. 125 psi**
- D. 130 psi

The governor stopping the air compressor at 125 psi is based on standard operating procedures for air brake systems in commercial vehicles. When the air pressure in the system reaches around 125 psi, the governor is designed to stop the compressor from pumping air, which helps prevent over-pressurization and potential damage to the system. Maintaining this pressure threshold is critical for safe operation and optimal performance of the air brake system. At this level, the vehicles typically have enough air pressure stored in the tanks to operate the brakes effectively. This ensures drivers have the necessary air for emergency situations while also protecting the integrity of the air brake components. Other pressures listed might not provide the same effectiveness or safety, as the common regulation for commercial motor vehicles is to hold the cut-out point at 125 psi, which is recognized as an industry standard.

4. What happens if your air brake system is not drained regularly?

- A. The braking system may freeze in cold weather
- B. Sludge can clog system valves**
- C. Your vehicle's braking efficiency will improve
- D. The system will require frequent repairs

Regularly draining the air brake system is crucial because moisture accumulates over time, leading to the formation of sludge. This sludge can clog system valves, which are essential for proper brake operation. When the valves become obstructed, it can result in insufficient air pressure supply to the brake components, impairing their effectiveness. Consequently, this may lead to delayed braking response, decreased safety, and increased wear on other parts of the braking system. Moisture buildup can also lead to corrosion of components, ultimately affecting the reliability and longevity of the air brake system. Therefore, understanding the necessity of regular drainage is vital for maintaining a functioning and safe braking system in vehicles equipped with air brakes.

5. What is the proper technique for descending long grades with air brakes?

- A. Apply brakes hard and maintain a steady pressure.
- B. Apply brakes just hard enough to reduce speed to 5 mph below safe speed, then release until back to safe speed.**
- C. Keep the brakes constantly engaged to prevent rolling.
- D. Stab brake intermittently to maintain speed.

The proper technique for descending long grades with air brakes involves applying the brakes just hard enough to reduce your speed to about 5 mph below the safe speed for that particular grade, and then releasing the brakes until your speed returns to the safe level. This method allows the brakes to cool and prevents overheating, which can lead to brake fade, a dangerous condition where brakes lose effectiveness due to excessive heat. By intermittently applying and releasing the brakes in this manner, you maintain better control over your vehicle's speed without continuously applying pressure, which can cause the brakes to overheat. This technique is especially important in maintaining the longevity and efficacy of your air brake system while ensuring the safety of your descent down the gradient. Other methods, such as applying the brakes hard and maintaining steady pressure, could lead to overheating and reduced braking power. Keeping the brakes constantly engaged is also problematic, as this does not allow them to cool and can increase the risk of brake failure. Stabbing the brakes intermittently to maintain speed might not provide the necessary consistent control and could result in loss of traction or control as well. Overall, option B provides a balanced approach that prioritizes both safety and brake maintenance.

6. What does air compression rely on in air brake systems?

- A. The vehicle's alternator
- B. Heat generated by the engine
- C. Air pressure gauges
- D. The air compressor and governor**

Air compression in air brake systems primarily relies on the air compressor and the governor. The air compressor is a critical component that takes in ambient air and compresses it to build up air pressure within the brake system. This compressed air is essential for the operation of air brakes, as it activates the braking mechanism when needed. The governor plays a vital role in regulating the air pressure produced by the compressor. It monitors the system's air pressure and controls the compressor's operation, ensuring that sufficient pressure is available for braking while preventing the system from over-pressurizing. Together, these components ensure that the air brake system has the necessary air pressure to function effectively and safely. Understanding the roles of the air compressor and governor is essential for anyone operating vehicles equipped with air brakes, as it directly impacts vehicle safety and performance.

7. What does the air compressor governor control?

- A. The temperature of the air
- B. When the air compressor pumps air**
- C. The volume of air in the tank
- D. The speed of the vehicle

The air compressor governor plays a crucial role in the functioning of air brake systems by controlling when the air compressor pumps air into the system. It monitors the pressure in the air tank and determines whether the compressor needs to engage or disengage based on the pressure levels. When the air pressure drops below a predetermined level, the governor activates the compressor to replenish the air; once the pressure reaches the desired level, the governor will stop the compressor from pumping further air to prevent over-pressurization. This control mechanism ensures that the air brake system maintains sufficient pressure for effective braking without placing unnecessary strain on the compressor. Understanding the function of the air compressor governor is essential for safe vehicle operation, as a malfunctioning governor could lead to inadequate braking performance and potential safety hazards on the road.

8. At what pressure is the safety valve in the air compressor tank set to open?

- A. 100 psi
- B. 80 psi
- C. 150 psi**
- D. 200 psi

The safety valve in the air compressor tank is typically set to open at a pressure of 150 psi. This design choice ensures that if the air pressure exceeds that threshold, the valve will release air to prevent potential damage or failure of the system due to overpressure. The opening of the valve is a critical safety feature, as it helps maintain the integrity of the air brake system by preventing excessive pressure buildup, which can lead to leaks, component failure, or dangerous brake system malfunctions. The specified pressure setting of 150 psi aligns with standard practices for heavy-duty air brake systems, ensuring safety while allowing for adequate function of the brakes under normal operating conditions. This makes it essential for drivers and operators to be aware of this pressure level, as it relates directly to the proper functioning and safety of their vehicles equipped with air brakes.

9. What does “full brake application” mean in air brake terminology?

- A. Applying enough air pressure to fully engage the braking mechanism**
- B. Only using the trailer brakes
- C. Gradual reduction in speed
- D. Releasing all brake pressure

In air brake terminology, “full brake application” refers to the process of applying enough air pressure to fully engage the braking mechanism of the vehicle. This ensures that the brakes are applied at their maximum level, effectively slowing down or stopping the vehicle in emergency situations or under heavy loads. When a driver performs a full brake application, they activate the brake system to its fullest extent, which allows for optimal braking performance. This is essential for maintaining control of the vehicle, especially in situations that require quick response times. Other options, like solely using trailer brakes or gradually reducing speed, do not meet the criteria for a full brake application. Similarly, releasing all brake pressure is counterintuitive to the concept, as it means disengaging the brakes completely rather than applying them fully. Understanding this terminology is critical for safe operation and effective decision-making while driving vehicles equipped with air brakes.

10. What is the maximum allowable crack length in brake drums or discs?

- A. No cracks allowed
- B. Cracks shorter than a quarter of the friction area width
- C. Cracks longer than half the width of the friction area**
- D. Cracks longer than a quarter of the width of the friction area

The correct understanding of maximum allowable crack lengths in brake drums or discs is grounded in safety regulations and engineering standards. Cracks in these components can significantly compromise braking performance and, therefore, their integrity is critical for safe operation. In this context, brake components must maintain their structural integrity to ensure they perform effectively under pressure and heat during normal operation. When a crack exceeds a certain length, particularly longer than half the width of the friction area, it poses a serious risk of failure. This limit is set to ensure that even in the case of wear or damage, the braking system can still function effectively and safely without the risk of catastrophic failure. Allowing cracks longer than half the width of the friction area would significantly increase the risk of brake failure, leading to dangerous situations for the driver and others on the road. Therefore, regulations dictate that any cracks longer than this threshold are unacceptable, reinforcing the importance of regular inspections and maintenance of brake systems.

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://texascdlbrakes.examzify.com>

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

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