

# Aircraft Dispatcher Training Center (ADTC) ADX Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

**This is a sample study guide. To access the full version with hundreds of questions,**

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.**

## **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.**

## **7. Use Other Tools**

**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!**

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## Questions

- 1. Which sources provide the most accurate information on current and forecast icing conditions?**
  - A. PIREPs, Area Forecast, and the Freezing Level Chart**
  - B. Low-level Sig Weather Prog Chart, RADATs, and the Area Forecast**
  - C. AIRMET Zulu**
  - D. All of the above**
- 2. What is the minimum number of aircraft rescue and firefighting vehicles required at San Francisco Intl (SFO) under FAR Part 139?**
  - A. Two vehicles**
  - B. Three vehicles**
  - C. Four vehicles**
  - D. One vehicle**
- 3. What altitude must be used in case of two-way radio communications failure during IFR?**
  - A. An altitude at least 1,000 feet above the highest obstacle**
  - B. A VFR altitude above the MEA**
  - C. The last assigned altitude or MEA, whichever is higher**
  - D. Any appropriate altitude based on the pilot's discretion**
- 4. What condition was noted at 2300Z in the given TAF for MCO?**
  - A. Severe thunderstorms with heavy rain**
  - B. Thunderstorms in the vicinity**
  - C. Variable wind with gusts to 30 knots**
  - D. Clear skies with no significant weather**
- 5. If an aircraft is using an alternate type of navigation aid due to RAIM unavailability, what is the pilot's primary concern?**
  - A. Safety of the flight**
  - B. Efficiency of the flight**
  - C. Compliance with air traffic control instructions**
  - D. Minimizing operational costs**



- 6. What performance impact occurs from loading an airplane with the CG aft of its aft limit?**
- A. Airplane will fly slower and require more power**
  - B. The longitudinal axis will be impacted**
  - C. General pitch instability**
  - D. Increased control authority**
- 7. Which of the following must be true for a second in command to operate an aircraft in domestic operations?**
- A. Must have a first-class medical**
  - B. Must have a type rating for all aircraft**
  - C. Must have experience in another aircraft type**
  - D. Must hold a commercial certificate with proper ratings**
- 8. Extended trips without adequate rest can lead to which of the following?**
- A. Autokinesis**
  - B. Hallucinations**
  - C. Chronic stress**
  - D. Disorientation**
- 9. What is the encoding for a calm wind in the International Terminal Aerodrome Forecast (TAF)?**
- A. 00003KT**
  - B. 00000KT**
  - C. VRB00KT**
  - D. CalmWind**
- 10. What is the approximate level-off pressure altitude after drift-down under Operating Conditions D-3?**
- A. 19,800 feet**
  - B. 22,200 feet**
  - C. 21,600 feet**
  - D. 20,800 feet**

## **Answers**

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

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## **Explanations**

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**1. Which sources provide the most accurate information on current and forecast icing conditions?**

**A. PIREPs, Area Forecast, and the Freezing Level Chart**

**B. Low-level Sig Weather Prog Chart, RADATs, and the Area Forecast**

**C. AIRMET Zulu**

**D. All of the above**

The sources that provide the most accurate information on current and forecast icing conditions are indeed PIREPs, Area Forecast, and the Freezing Level Chart. PIREPs (Pilot Reports) are invaluable as they offer real-time observations of icing conditions encountered during flights, providing firsthand accounts of turbulence, icing, and cloud information. The Area Forecast presents a broad overview of weather conditions, including anticipated icing in defined regions, giving dispatchers critical insights into expected atmospheric conditions. The Freezing Level Chart details the altitude at which the temperature is at or below freezing, which is essential for understanding the potential for icing. This chart helps dispatchers identify where icing may occur based on the specified freezing levels in relation to the aircraft's flight path. While other sources such as the Low-level Sig Weather Prog Chart, RADATs, AIRMET Zulu, and additional forecasting tools do provide useful weather information, they may not specifically focus on icing conditions to the same degree as the trio of PIREPs, Area Forecast, and the Freezing Level Chart. Therefore, these three selected sources are the most reliable for assessing current and forecast icing conditions.

**2. What is the minimum number of aircraft rescue and firefighting vehicles required at San Francisco Intl (SFO) under FAR Part 139?**

**A. Two vehicles**

**B. Three vehicles**

**C. Four vehicles**

**D. One vehicle**

The correct answer is that three aircraft rescue and firefighting vehicles are required at San Francisco International Airport (SFO) under FAR Part 139 regulations. This regulation stipulates minimum standards for airport operations, including the provision of firefighting and rescue services to ensure safety during aircraft emergencies. The number of vehicles required is determined based on several factors, including the number of passenger seats in the aircraft that the airport accommodates and the level of operations. Since SFO is a large airport that handles a significant volume of commercial operations and larger aircraft, it necessitates a higher level of firefighting capability to effectively respond to potential emergencies. Airports with a higher volume of operations and larger aircraft typically require more rescue and firefighting vehicles to ensure rapid response times and adequate coverage. Therefore, having three vehicles at SFO meets the regulatory requirements for ensuring public safety and improving response efficiency during emergencies.

3. What altitude must be used in case of two-way radio communications failure during IFR?
- A. An altitude at least 1,000 feet above the highest obstacle
  - B. A VFR altitude above the MEA
  - C. The last assigned altitude or MEA, whichever is higher**
  - D. Any appropriate altitude based on the pilot's discretion

In the event of a two-way radio communications failure during IFR (Instrument Flight Rules) operations, the appropriate altitude to maintain is the last assigned altitude or the Minimum Enroute Altitude (MEA), whichever is higher. This protocol ensures that the aircraft remains compliant with air traffic control instructions while also ensuring safe clearance from terrain and obstacles. The MEA provides both obstacle clearance and adequate signal coverage for navigation aids, making it a critical altitude to know when communication is lost. Maintaining the last assigned altitude is essential, as it reflects the most recent instructions from air traffic control, which are vital for the safe operation of the aircraft. If the pilot has not received a new clearance or instruction prior to a radio failure, sticking to the last communication preserves the intended flight profile and safety margin. This procedure emphasizes the importance placed on following air traffic control directions and ensuring safety in the airspace system.

4. What condition was noted at 2300Z in the given TAF for MCO?
- A. Severe thunderstorms with heavy rain
  - B. Thunderstorms in the vicinity**
  - C. Variable wind with gusts to 30 knots
  - D. Clear skies with no significant weather

The mention of "thunderstorms in the vicinity" at 2300Z in the TAF indicates that there are thunderstorms occurring near the airport, which necessitates heightened awareness and potential changes in flight operations. This condition usually suggests that pilots and dispatchers need to consider possible disruptions to schedules, take precautions for turbulence, or prepare for changing weather conditions during takeoff and landing. This phrasing also implies that while thunderstorms are not directly overhead, their proximity could still influence airport operations, making it essential for flight crews to stay updated on any changes in the storm's behavior or path. In aviation weather reports, such conditions can lead to restrictions on flight routes or even delays, as safety remains a priority. The other options, like severe thunderstorms or clear skies, describe more definitive conditions that either indicate higher danger or a perfect weather scenario, neither of which aligns with the scenario posed in the TAF. Variable wind with gusts suggests a level of turbulence but does not directly indicate thunderstorm activity, which is specifically highlighted in the correct answer.

**5. If an aircraft is using an alternate type of navigation aid due to RAIM unavailability, what is the pilot's primary concern?**

- A. Safety of the flight**
- B. Efficiency of the flight**
- C. Compliance with air traffic control instructions**
- D. Minimizing operational costs**

When an aircraft is using an alternate type of navigation aid due to RAIM (Receiver Autonomous Integrity Monitoring) unavailability, the pilot's primary concern is the safety of the flight. This situation often indicates that the primary navigation system, which may rely on GPS, is not functioning correctly or cannot provide the necessary assurance of position accuracy. In aviation, safety is always the foremost priority. If RAIM is unavailable, pilots must ensure they are using reliable navigation aids to maintain control over the aircraft and ensure safe navigation, especially in critical phases like departure, approach, or landing. While efficiency, compliance with air traffic control instructions, and minimizing operational costs are also vital considerations for flight operations, they do not take precedence over safety. In uncertain navigation scenarios, ensuring that the aircraft is safely routed and that the pilots have reliable situational awareness is crucial to prevent accidents or incidents.

**6. What performance impact occurs from loading an airplane with the CG aft of its aft limit?**

- A. Airplane will fly slower and require more power**
- B. The longitudinal axis will be impacted**
- C. General pitch instability**
- D. Increased control authority**

When an airplane is loaded such that the center of gravity (CG) is aft of its aft limit, it leads to general pitch instability. The reason this occurs is that an aft CG position results in reduced static stability, making it more difficult for the aircraft to return to its original attitude after a disturbance. This instability affects the aircraft's handling characteristics and can lead to a tendency to pitch up or down uncontrollably under certain flight conditions. Essentially, the aircraft becomes less responsive to control inputs due to the reduced leverage exerted by the tail in stabilizing the aircraft. This can manifest during various phases of flight, particularly takeoff and landing, where pitch control is critical for maintaining safety and performance. The other options, while representing aspects of aircraft performance, do not directly address the specific consequence of operating with the CG beyond its aft limit in terms of handling and stability. For instance, while the longitudinal axis may be influenced by loading changes, and some degree of control authority could be involved, the most critical issue resulting from an aft CG is indeed the loss of pitch stability.

**7. Which of the following must be true for a second in command to operate an aircraft in domestic operations?**

- A. Must have a first-class medical**
- B. Must have a type rating for all aircraft**
- C. Must have experience in another aircraft type**
- D. Must hold a commercial certificate with proper ratings**

For a second in command (SIC) to operate an aircraft in domestic operations, it is essential for that individual to hold a commercial certificate with the appropriate ratings. This requirement ensures that the SIC has the necessary knowledge, skills, and qualifications to contribute effectively and safely to the flight operations. Holding a commercial certificate signifies that the pilot has achieved a certain level of proficiency and is qualified to engage in paid flying, which is critical in a commercial aviation environment. Additionally, the proper ratings associated with the certificate ensure that the SIC is endorsed to operate the specific aircraft type being flown, further enhancing the safety and efficacy of the flight. Understanding the responsibilities of a SIC also ties back to regulatory requirements and operating standards that govern flight safety. Pilots without the necessary certifications and ratings may lack the essential training required for the role, potentially jeopardizing flight safety. In contrast, while having a first-class medical and a type rating for all aircraft would be beneficial, they are not universally required for the role of SIC in domestic operations. Similarly, while experience in another aircraft type may enhance a pilot's skills, it is not a mandatory requirement for the SIC position.

**8. Extended trips without adequate rest can lead to which of the following?**

- A. Autokinesis**
- B. Hallucinations**
- C. Chronic stress**
- D. Disorientation**

Extended trips without adequate rest can indeed lead to chronic stress, which is a significant concern for individuals involved in various demanding professions, including those in aviation. Chronic stress can arise from prolonged periods of work, especially without adequate breaks or sleep, leading to both mental and physical fatigue. When individuals do not have sufficient rest, their bodies and minds may struggle to cope with the sustained pressure, ultimately resulting in chronic stress. This can manifest in various ways, such as decreased cognitive function, impaired decision-making, and overall reduced performance. In the aviation context, such effects can be highly detrimental, impacting safety and efficiency. While other options like hallucinations, disorientation, and autokinesis can result from fatigue or lack of rest, chronic stress encompasses a broader range of effects and can also predispose individuals to those symptoms. This understanding is crucial for the importance of proper rest and a balanced schedule for those handling the responsibilities of aircraft dispatching and other critical aviation roles.



**9. What is the encoding for a calm wind in the International Terminal Aerodrome Forecast (TAF)?**

- A. 00003KT
- B. 00000KT**
- C. VRB00KT
- D. CalmWind

In the context of the International Terminal Aerodrome Forecast (TAF), a calm wind is represented by the encoding "00000KT." This format specifies that the wind is calm, with "00000" indicating no wind direction or speed. The "KT" at the end denotes that the measurement is in knots. This specific notation is crucial for pilots and dispatchers, as it provides clear information regarding wind conditions at the airport. When there is no wind, it is essential for operational planning and runway utilization to understand that wind factors are negligible. Other options, while they represent wind conditions, do not accurately convey a state of calm. "00003KT" suggests a light wind from a specific direction at three knots, "VRB00KT" implies variable winds with no specific direction but still indicates some movement, and "CalmWind" is not a recognized format for TAF and lacks the requisite numeric and directional components. Thus, "00000KT" is the correct and widely accepted representation of a calm wind in TAF reports.

**10. What is the approximate level-off pressure altitude after drift-down under Operating Conditions D-3?**

- A. 19,800 feet
- B. 22,200 feet
- C. 21,600 feet**
- D. 20,800 feet

The approximate level-off pressure altitude after drift-down under Operating Conditions D-3 is identified as 21,600 feet. This altitude is determined based on specific performance and operational criteria established for aircraft in that category during the drift-down procedure. In the context of aircraft operations, particularly when discussing drift-down procedures, the altitude is primarily influenced by the aircraft's performance characteristics, including its engine configurations and aerodynamic properties. After an engine failure, the aircraft's descent is calculated to maximize the glide capability and maintain control while ensuring a safe level-off altitude above any obstructions or terrain. The selected altitude of 21,600 feet aligns with established guidelines that consider safety margins while accommodating the aircraft's weight, configuration, and environmental factors that could affect performance on descent. This calculation is vital in ensuring that the aircraft can safely navigate to a suitable landing area following an in-flight emergency, reflecting adherence to regulatory standards and operational protocols. Understanding the rationales behind these altitude selections is crucial for effective flight planning and ensures that dispatchers can make informed decisions in various flight scenarios. Thus, recognizing 21,600 feet as the correct response highlights its importance in training dispatchers for real-world operational challenges.

## 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](mailto:hello@examzify.com).**

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

**<https://adtcadx.examzify.com>**

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