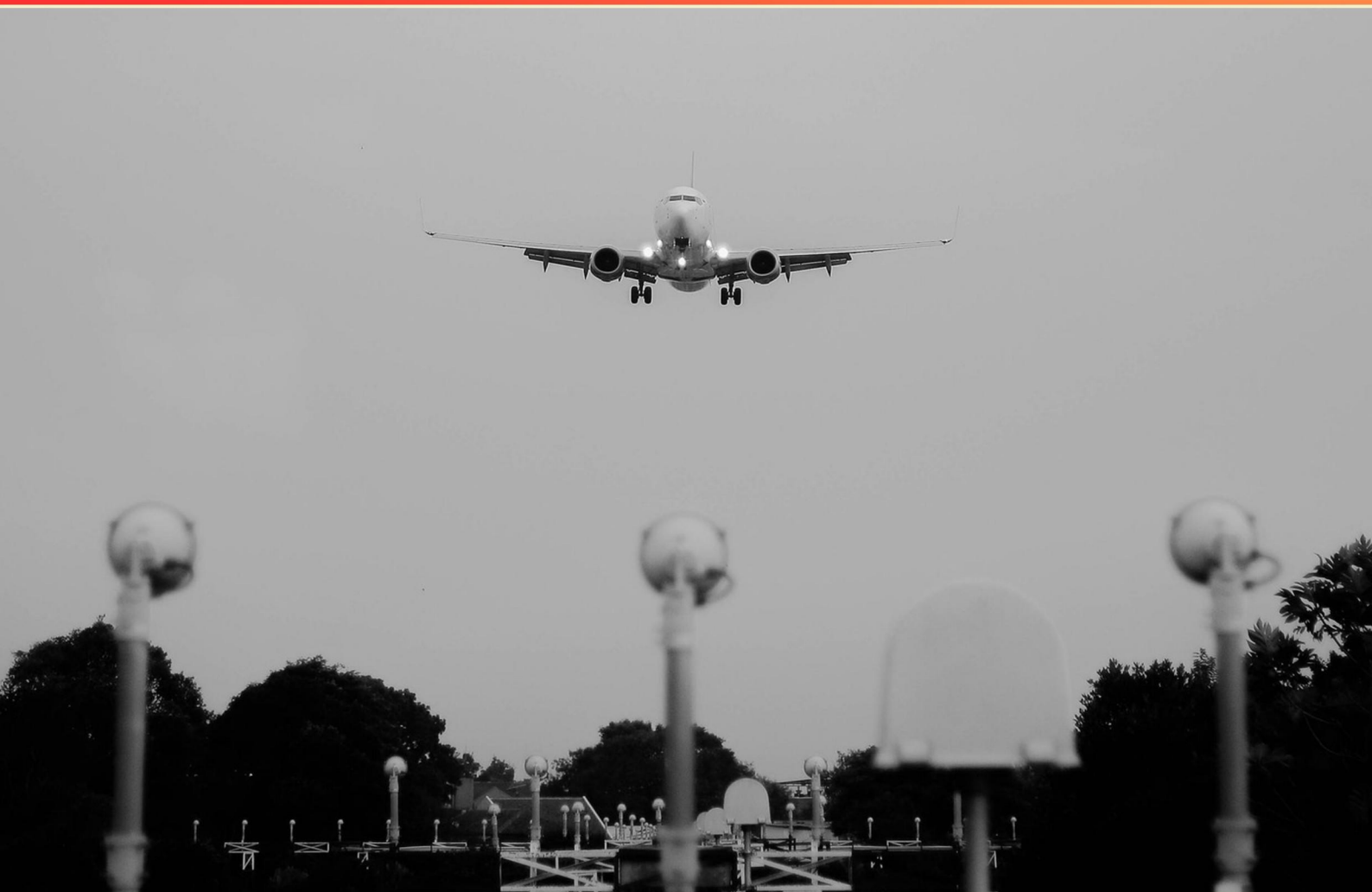


# **ZAE AEROCENTER CONTROLLER KNOWLEDGE TEST (CKT) 2 PRACTICE TEST (SAMPLE) STUDY GUIDE**



## **SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS**

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

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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. What is the required lateral separation between aircraft at or above FL600 in radar conditions?**
  - A. 2 miles
  - B. 5 miles
  - C. 10 miles
  - D. 3 miles
- 2. During an emergency, which frequency should the aircraft remain on?**
  - A. Emergency frequency 121.5
  - B. The initial contact frequency unless there's a valid reason to change
  - C. A frequency with less traffic
  - D. VHF frequency
- 3. How should the identity of a primary target be confirmed after accepting a handoff?**
  - A. By advising the aircraft of its position
  - B. By reviewing the last known coordinates
  - C. By checking radar history
  - D. By analyzing flight data
- 4. Which statement is true about an aircraft that displays an improper beacon code?**
  - A. The aircraft is returning to its departure airport
  - B. The aircraft has an assigned beacon code but is displaying the wrong code
  - C. The aircraft is entering a holding pattern
  - D. The aircraft is in an emergency situation
- 5. What does the coast track position symbol indicate?**
  - A. Standard position tracking
  - B. Loss of contact with the radar target
  - C. Successful tracking of an aircraft
  - D. Clear identification of air traffic

- 6. When is an ALNOT considered cancelled?**
- A. When the pilot files a flight plan
  - B. Once the search area is established
  - C. When the aircraft has been located or the search has been abandoned
  - D. After 60 minutes of communication loss
- 7. What color represents moderate precipitation levels on a NEXRAD display?**
- A. Purple
  - B. Checkered cyan
  - C. Cyan
  - D. Green
- 8. What does the CST condition indicate about an aircraft?**
- A. It is flying at low altitude
  - B. It is in Coast Status, not tracked by computer
  - C. It is on final descent
  - D. It has been diverted to another airport
- 9. In which scenario will Field C be vacant according to altitude qualifiers?**
- A. Mode C reported altitude is corrupted
  - B. Neither Mode C nor controller-entered altitude has been received
  - C. Flight type is IFR
  - D. Controller-entered reported altitude is greater than assigned altitude
- 10. What does STARS stand for in air traffic control?**
- A. Standard Terminal Arrival Routes
  - B. Standard Time Adjustment Routes
  - C. Standard Traffic Assignment Routes
  - D. Stable Terminal Allocation Referrals



## **Answers**

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

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## **Explanations**

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**1. What is the required lateral separation between aircraft at or above FL600 in radar conditions?**

- A. 2 miles
- B. 5 miles**
- C. 10 miles
- D. 3 miles

*The required lateral separation between aircraft operating at or above FL600 in radar conditions is 5 miles. This standard is established to ensure safe distances between high-altitude aircraft, where speeds and densities can be greater, necessitating a wider margin for error. At altitudes above FL600, the increased variability in performance characteristics and the potential for more complex air traffic scenarios make it crucial to maintain this level of separation. This helps minimize the risk of wake turbulence and ensures that controllers have adequate space to manage and direct air traffic effectively. In contrast to lower altitudes, where different separation standards apply, the requirement for 5 miles at FL600 reflects the need for heightened caution and operational safety in high-altitude environments.*

**2. During an emergency, which frequency should the aircraft remain on?**

- A. Emergency frequency 121.5
- B. The initial contact frequency unless there's a valid reason to change**
- C. A frequency with less traffic
- D. VHF frequency

*The recommended frequency for an aircraft to remain on during an emergency is the initial contact frequency unless there's a valid reason to change. This is because the initial contact frequency is where air traffic control (ATC) has been monitoring the flight and is best able to assist with the emergency situation. Staying on this frequency ensures that the communication line remains open with those who are already familiar with the flight's situation. This practice is built on the idea that ATC is already aware of the aircraft's last known position and intentions, allowing for a quicker response to any emergencies. Additionally, air traffic controllers are trained to prioritize emergency traffic that is already established on their frequency, which can facilitate a rapid and effective response during critical situations. In contrast, other frequencies, including emergency frequency 121.5, are meant for distress calls but do not ensure that the pilot is in contact with the controller who is already managing their flight. Changing to a frequency with less traffic may not guarantee communication with ATC or other useful air traffic, and while a VHF frequency is important for communication in general, it doesn't necessarily provide optimal assistance in an emergency scenario compared to the established contact frequency.*

**3. How should the identity of a primary target be confirmed after accepting a handoff?**

- A. By advising the aircraft of its position**
- B. By reviewing the last known coordinates
- C. By checking radar history
- D. By analyzing flight data

*Advising the aircraft of its position is the most effective method for confirming the identity of a primary target after accepting a handoff. This action allows the aircraft to acknowledge their location within the airspace and ensures that there is a mutual understanding between the controller and the pilot. This direct communication establishes situational awareness and reinforces the accuracy of the position being reported. In contrast, while reviewing last known coordinates, checking radar history, or analyzing flight data can provide valuable information about the target, they do not provide the same immediate confirmation from the aircraft itself. These methods may help in verifying the target but rely on prior data that could be outdated or incorrect. Position advisories facilitate real-time confirmation and clarity, which are crucial elements in ensuring safe and efficient air traffic management.*

**4. Which statement is true about an aircraft that displays an improper beacon code?**

- A. The aircraft is returning to its departure airport
- B. The aircraft has an assigned beacon code but is displaying the wrong code**
- C. The aircraft is entering a holding pattern
- D. The aircraft is in an emergency situation

*An aircraft displaying an improper beacon code indicates that it has been assigned a specific beacon code but is transmitting a different code instead. This situation might arise due to a number of factors, including pilot error, equipment malfunction, or a transponder misconfiguration. Correct communication of an aircraft's beacon code is crucial for air traffic controllers, as it helps in identifying and tracking the aircraft accurately. When the wrong code is shown, it can create confusion regarding the aircraft's identity and its intentions, which can complicate air traffic management and increase the risk of miscommunication. The other options do not accurately reflect the implications of an improper beacon code. An aircraft returning to its departure airport or entering a holding pattern does not inherently relate to its beacon code being incorrect. Emergencies typically involve specific transponder signals (such as squawking 7700) rather than a general reference to an incorrect code being displayed. Each of these scenarios has distinct protocols and responses that do not directly indicate a beacon code issue.*

## 5. What does the coast track position symbol indicate?

- A. Standard position tracking
- B. Loss of contact with the radar target**
- C. Successful tracking of an aircraft
- D. Clear identification of air traffic

The coast track position symbol indicates a loss of contact with the radar target. This symbol is used in air traffic control to signify that the radar is not currently receiving data from the target aircraft, often due to the aircraft moving out of range of the radar or due to a temporary loss of radar coverage. When this symbol appears, it alerts air traffic controllers that they need to verify the aircraft's position through other means, such as communication with the pilot or reference to their last known position. In contrast, standard position tracking signifies that the aircraft is being actively tracked; successful tracking of an aircraft means that its movements are being monitored properly; and clear identification of air traffic indicates that the target is positively identified on the radar, which does not apply in the case of a coast track.

## 6. When is an ALNOT considered cancelled?

- A. When the pilot files a flight plan
- B. Once the search area is established
- C. When the aircraft has been located or the search has been abandoned**
- D. After 60 minutes of communication loss

An ALNOT (Alert Notification) is considered cancelled when the aircraft has been located or the search has been abandoned because this signifies that the immediate concern for the safety of the aircraft and its occupants has been resolved. The purpose of an ALNOT is to alert search and rescue organizations that an aircraft may be in distress or has not arrived at its destination as planned. Canceling the ALNOT appropriately indicates that either the aircraft is safe or that continued efforts to locate it are no longer deemed necessary, allowing resources to be redirected to other tasks or missions. The other options do not represent the criteria for cancelling an ALNOT. For instance, filing a flight plan does not resolve an emergency situation, nor does establishing a search area indicate that the problem has been addressed. Similarly, a fixed period of time without communication does not automatically conclude the need for an ALNOT unless the situation regarding the aircraft has been definitively resolved. Hence, option C accurately captures the circumstances under which an ALNOT is officially cancelled.

## 7. What color represents moderate precipitation levels on a NEXRAD display?

- A. Purple**
- B. Checkered cyan
- C. Cyan
- D. Green

The correct answer indicates that purple represents moderate precipitation levels on a NEXRAD display. NEXRAD, which stands for Next Generation Weather Radar, uses various colors to indicate the intensity of precipitation. Purple is utilized to signify moderate precipitation, which typically includes more significant rainfall rates that can be associated with various weather phenomena. Understanding the color coding is crucial for interpreting weather data effectively. For instance, green generally corresponds to light rain, while cyan is often used for slightly more intense precipitation. The checkered cyan does not have a specific meaning in standard NEXRAD representation and is therefore not applicable in indicating precipitation levels. Purple effectively communicates to meteorologists and pilots the potential for moderate rain, enabling informed decisions regarding aviation and safety measures in weather-affected areas.

## 8. What does the CST condition indicate about an aircraft?

- A. It is flying at low altitude
- B. It is in Coast Status, not tracked by computer**
- C. It is on final descent
- D. It has been diverted to another airport

The CST condition stands for "Coast Status," which indicates that an aircraft is not actively being tracked by radar or other computer systems. When an aircraft is in this status, it typically means that it has transitioned out of an actively monitored phase of flight, often due to either a lack of signal or when it is operating outside the usual range of monitoring systems. This situation can arise in areas where radar coverage is limited, leading to a gap in the tracking data. The other options do not accurately reflect the implications of the CST designation. For instance, low altitude or being on final descent pertain to specific flight phases that would still be actively monitored rather than indicating a loss of tracking. Similarly, being diverted to another airport is a specific operational status that doesn't relate to whether the aircraft is being tracked. Thus, the correct understanding of the CST condition is essential for interpreting a pilot's or controller's situational awareness when dealing with aircraft not actively monitored.

## 9. In which scenario will Field C be vacant according to altitude qualifiers?

- A. Mode C reported altitude is corrupted
- B. Neither Mode C nor controller-entered altitude has been received**
- C. Flight type is IFR
- D. Controller-entered reported altitude is greater than assigned altitude

The correct choice highlights that Field C will be vacant when neither Mode C nor the controller-entered altitude has been received. This situation indicates a lack of altitude information, which is crucial for accurately monitoring and separating aircraft in controlled airspace. When both data sources are absent, there is no altitude input available for the aircraft's status, resulting in Field C being left open or unfilled. In the context of aviation operations, understanding the availability of altitude data is essential for safe air traffic control. If altitude information isn't provided, controllers cannot ensure proper separation between aircraft, which is a fundamental aspect of maintaining safety in the airspace. The other scenarios do not lead to an empty Field C. For instance, in the event of corrupted Mode C reported altitude, while there is an altitude input, it cannot be relied upon due to its compromised integrity. Similarly, if the flight type is IFR, it indicates that the aircraft is following instrument flight rules, which would typically require that they provide valid altitude data. The case of a controller-entered reported altitude that exceeds the assigned altitude indicates a discrepancy but still provides an altitude, even if it's not accurate, leading to Field C containing data rather than being vacant.

## 10. What does STARS stand for in air traffic control?

- A. Standard Terminal Arrival Routes
- B. Standard Time Adjustment Routes
- C. Standard Traffic Assignment Routes
- D. Stable Terminal Allocation Referrals

*STARS stands for Standard Terminal Arrival Routes, which are pre-defined routes that guide aircraft into an airport's terminal area safely and efficiently. These routes are established to streamline the arrival process, helping to manage traffic in a busy terminal environment and ensuring that arrivals can be coordinated effectively with departures. Using STARS helps reduce the need for air traffic controllers to provide custom routing instructions, thus minimizing radio communication and enhancing the flow of air traffic into the airport. By providing a structured and standardized arrival path, STARS contribute to overall safety and efficiency in the airspace system, allowing pilots to prepare for landing while still en route. The other options do not accurately reflect the terminology used in air traffic control; they either suggest non-existent routes or irrelevant concepts that do not serve the same purpose as STARS.*

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## 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://zaeaerocenterckt2.examzify.com>

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

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