

# 1C8X3 Volumes 1-4 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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# Table of Contents

<b>Copyright</b> .....	<b>1</b>
<b>Table of Contents</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>How to Use This Guide</b> .....	<b>4</b>
<b>Questions</b> .....	<b>6</b>
<b>Answers</b> .....	<b>9</b>
<b>Explanations</b> .....	<b>11</b>
<b>Next Steps</b> .....	<b>17</b>

# 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. What frequency modification is used in the AN/TPS-75 to help with target detection?**
  - A. Transmitted adjustments**
  - B. Side lobe frequency changes**
  - C. Stable local oscillator frequency**
  - D. Signal coherence**
- 2. Where is the terminal display workstation (TDW) monitor's brightness controlled?**
  - A. Remote bright control box**
  - B. Local brightness auxiliary port**
  - C. Remote brightness auxiliary port**
  - D. At the contrast/brightness control panel on the DEC**
- 3. Which is not a type of facility secured area?**
  - A. Limited access**
  - B. Controlled**
  - C. Restricted**
  - D. Critical**
- 4. In what octet of an Internet Protocol (IP) address can you identify the class of the address?**
  - A. Registry**
  - B. Second**
  - C. Third**
  - D. First**
- 5. How is the AN/TPS-75 Aircraft Control and Warning System antenna aligned to the north?**
  - A. Magnetically**
  - B. Mechanically**
  - C. Electronically**
  - D. Automatically in daily initialization**



- 6. Carabiners used in climbing should be rated to handle how many pounds?**
- A. 500.**
  - B. 1,000.**
  - C. 5,000.**
  - D. 10,000.**
- 7. Which Standard Terminal Automation Replacement System Operational Site (SOS) subsystem retains and distributes software for a site?**
- A. Enhanced Traffic Management System (ETMS)**
  - B. Terminal Automation Subsystem (TAS)**
  - C. Real Time Quality Control (RTQC)**
  - D. Site Support Subsystem (SSS)**
- 8. What term describes the condition of an aircraft becoming invisible to radar due to a specific speed creating a Doppler shift?**
- A. Tangential phase.**
  - B. Tangential speed.**
  - C. Blind phase.**
  - D. Blind speed.**
- 9. What is the primary function of the final power amplifier in the AN/TPS-75?**
- A. Decreasing signal strength**
  - B. Boosting transmit pulse**
  - C. Generating timing signals**
  - D. Aligning antenna position**
- 10. What selective identification feature (SIF) mode has a limit of 32 codes?**
- A. 1.**
  - B. 2.**
  - C. 3/A.**
  - D. C.**

## **Answers**

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

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## **Explanations**

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**1. What frequency modification is used in the AN/TPS-75 to help with target detection?**

- A. Transmitted adjustments**
- B. Side lobe frequency changes**
- C. Stable local oscillator frequency**
- D. Signal coherence**

The correct answer focuses on the concept of a stable local oscillator frequency, which is crucial for effective target detection in radar systems like the AN/TPS-75. A stable local oscillator frequency helps to maintain consistent and accurate frequency references for the radar's transmitted and received signals. This stability is essential for distinguishing between targets and clutter, as it ensures that the system can effectively process the return signals from targets over a range of distances and speeds. In radar systems, fluctuations in frequency can lead to inaccuracies in range and Doppler measurements, making it challenging to detect and track moving targets or differentiate them from background noise. By utilizing a stable local oscillator frequency, the AN/TPS-75 can produce reliable frequency signals that contribute to improved detection accuracy and performance. While other options may involve modifications or adjustments in radar operation, they do not provide the same foundational benefit of frequency stability that enhances target detection capabilities. By ensuring that the oscillation remains constant and predictable, the radar system can better analyze received echoes and identify potential targets among various other signals in the environment.

**2. Where is the terminal display workstation (TDW) monitor's brightness controlled?**

- A. Remote bright control box**
- B. Local brightness auxiliary port**
- C. Remote brightness auxiliary port**
- D. At the contrast/brightness control panel on the DEC**

The terminal display workstation (TDW) monitor's brightness is controlled at the remote bright control box. This control box is typically used for adjusting the brightness settings without needing to access the monitor directly. It allows personnel using the TDW to easily make brightness adjustments from a distance, which is particularly useful in settings where direct access to the monitor may be limited or less convenient. By using a remote control method, operators can ensure optimal visibility and comfort during use, enhancing the overall user experience. Adjusting brightness at a local port would not provide the flexibility that a remote control box allows, and while the contrast/brightness control panel on the DEC might sound plausible, it typically does not directly handle brightness for the TDW monitor specifically.

### 3. Which is not a type of facility secured area?

- A. Limited access
- B. Controlled
- C. Restricted
- D. Critical**

In the context of facility security classifications, a secured area is often defined by various levels of control and access that are implemented to protect sensitive information, assets, or individuals. The types of secured areas typically include limited access, controlled, and restricted areas, each signifying varying degrees of access control and security measures based on the sensitivity of the information or assets being protected. Limited access areas are those where entry is restricted to authorized personnel only. Controlled areas allow for more specific protocols around access that may vary by situation, while restricted areas are designed to safeguard highly sensitive resources, typically requiring stricter access protocols and monitoring. The designation "critical," however, does not typically serve as a recognized category of secured area in the same manner as the others listed. Instead, critical might refer to a level of importance or urgency related to security rather than a formalized access control classification. It indicates something that may need immediate attention or a higher degree of security but does not serve as a specific type of secured area. As a result, "critical" stands out among the choices as it does not fit the established categories relevant to facility secured areas.

### 4. In what octet of an Internet Protocol (IP) address can you identify the class of the address?

- A. Registry
- B. Second
- C. Third
- D. First**

The class of an Internet Protocol (IP) address can be identified in the first octet of the address. This first octet serves as a key indicator of the address class—Classes A, B, C, D, and E are determined based on the value of the first octet. For example: - Class A addresses have a first octet that ranges from 0 to 127. - Class B addresses range from 128 to 191. - Class C addresses range from 192 to 223. - Class D is used for multicast addresses and ranges from 224 to 239. - Class E is reserved for experimental use, ranging from 240 to 255. The determination of the class based on the first octet is crucial for routing decisions and network design. As a result, understanding the role of the first octet not only helps identify the class of an IP address but also aids in managing IP address allocation and ensuring proper network configuration.

**5. How is the AN/TPS-75 Aircraft Control and Warning System antenna aligned to the north?**

- A. Magnetically**
- B. Mechanically**
- C. Electronically**
- D. Automatically in daily initialization**

The AN/TPS-75 Aircraft Control and Warning System antenna is aligned to the north electronically, which allows for precise and efficient operation. Electronic alignment utilizes sensors and calibration methods to detect the current orientation of the antenna and adjust it in real-time. This technique enhances the accuracy of target tracking and system performance, as it can account for any movements or shifts in the antenna's position. Magnetic or mechanical methods could introduce variability or inaccuracies depending on environmental conditions or physical mechanics, which is why electronic alignment is preferred in modern radar systems. Though there may be some automatic processes in initialization, the core method of alignment specifically relies on electronic means to ensure optimal functionality.

**6. Carabiners used in climbing should be rated to handle how many pounds?**

- A. 500.**
- B. 1,000.**
- C. 5,000.**
- D. 10,000.**

The correct answer is based on the strength requirements for climbing gear, particularly carabiners. In climbing, carabiners are typically required to be rated for a minimum of 5,000 pounds of force, which reflects the safety standards established by climbing organizations and manufacturers. This strength ensures that, in the event of a fall, the carabiner can withstand the significant forces generated without failure. This rating is important for the safety of the climber, as it provides a margin of safety beyond what a climber might expect in terms of weight and dynamic forces during a fall. Using gear that meets or exceeds these ratings is crucial for ensuring reliability and safety in climbing activities. Lower ratings, such as 500 or 1,000 pounds, do not meet the necessary safety standards required for climbing and would put the climber at risk. Similarly, while a rating of 10,000 pounds exceeds the common requirements, the typical industry standard is 5,000 pounds, making it a reliable choice for climbing applications.

**7. Which Standard Terminal Automation Replacement System Operational Site (SOS) subsystem retains and distributes software for a site?**

**A. Enhanced Traffic Management System (ETMS)**

**B. Terminal Automation Subsystem (TAS)**

**C. Real Time Quality Control (RTQC)**

**D. Site Support Subsystem (SSS)**

The Site Support Subsystem (SSS) is responsible for retaining and distributing software for a site within the Standard Terminal Automation Replacement System (STARS). This subsystem plays a crucial role in managing the operational software necessary for various terminal operations, ensuring that all system components have access to the latest and most relevant software updates. This capability is essential for maintaining consistent operational standards and performance across the site, as the SSS facilitates the deployment of software updates and patches. This helps enhance system stability, improve functionality, and maintain compliance with aviation regulations and standards. Therefore, the SSS ensures that operational staff are equipped with the tools and software needed to perform their duties effectively.

**8. What term describes the condition of an aircraft becoming invisible to radar due to a specific speed creating a Doppler shift?**

**A. Tangential phase.**

**B. Tangential speed.**

**C. Blind phase.**

**D. Blind speed.**

The term that describes the condition of an aircraft becoming invisible to radar due to a specific speed creating a Doppler shift is "Blind speed." This phenomenon occurs when the radar signal reflects off the aircraft in such a way that it falls within a particular range that the radar system cannot detect, making the aircraft essentially invisible to that radar system at certain speeds. In radar technology, the Doppler effect can result in situations where objects moving at certain speeds create signals that either cancel each other out or shift to frequencies beyond the detection capabilities of the radar. When an aircraft reaches a certain velocity, it may experience this "Blind speed," which is a critical consideration in stealth technology and military aviation, as it offers tactical advantages during operations. Other options, such as "Blind phase," "Tangential phase," and "Tangential speed," do not accurately capture the concept of the aircraft becoming undetectable due to Doppler effects related to specific speeds. Therefore, "Blind speed" is the precise terminology used in aerodynamics and radar technology to define this specific condition.



**9. What is the primary function of the final power amplifier in the AN/TPS-75?**

- A. Decreasing signal strength**
- B. Boosting transmit pulse**
- C. Generating timing signals**
- D. Aligning antenna position**

The primary function of the final power amplifier in the AN/TPS-75 is to boost the transmit pulse. This component plays a crucial role in enhancing the power of the signal before it is sent out by the radar system. By amplifying the transmit pulse, the final power amplifier ensures that the signal can travel further distances and maintain clarity when it reaches the target, which is essential for accurate detection and tracking. This amplification process is vital for radar performance, as it directly impacts the system's ability to gather information from distant objects. Other options address functions that do not pertain to the final power amplifier. While decreasing signal strength may seem relevant, it is contrary to the amplifier's purpose. Generating timing signals is typically handled by other components within the radar system, and aligning antenna position involves mechanical systems rather than the amplification of electrical signals. Thus, boosting the transmit pulse is clearly the correct and most relevant function in the context of the AN/TPS-75 radar system.

**10. What selective identification feature (SIF) mode has a limit of 32 codes?**

- A. 1.**
- B. 2.**
- C. 3/A.**
- D. C.**

The selective identification feature (SIF) mode that has a limit of 32 codes is the first mode. This mode is designed to accommodate a range of 32 distinct identification codes, allowing for effective tracking and identification of various items or assets within a system. This limitation is significant in contexts where precise identification is necessary, as it establishes a specific framework within which the SIF operates. The nature and structure of the identification codes in this mode simplify the process of management and oversight, making it easier for users to maintain an organized system. In contrast, the other modes, while capable of supporting more or different functionalities, either expand the number of codes available or change the parameters of how identification occurs.

## 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://1c8x3vol1to4.examzify.com>**

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