

National Airspace System (NAS) 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

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- 1. On a Sectional Chart, the unit of measurement for longitude and latitude is denoted as what?**
 - A. Meter**
 - B. Foot**
 - C. Degree**
 - D. Second**
- 2. What role does communication play when pilots encounter changing airspace classifications?**
 - A. It is optional and can be bypassed**
 - B. It ensures compliance with new regulations**
 - C. It allows for coordination with other aircraft**
 - D. It helps in receiving updates on air traffic status**
- 3. Which of the following are the two categories of airspace in the NAS?**
 - A. Public and Private**
 - B. Regulatory and Non-Regulatory**
 - C. Controlled and Uncontrolled**
 - D. Military and Civilian**
- 4. What airspace begins at surface level up to 2,500 feet AGL near airports?**
 - A. Class E airspace**
 - B. Class C airspace**
 - C. Class D airspace**
- 5. What is the floor of the Savannah Class C airspace at the shelf area?**
 - A. 1,300 feet AGL**
 - B. 1,300 feet MSL**
 - C. 1,700 feet MSL**

6. What does the symbol "25" in brackets signify in Class D airspace?

- A. Altitude in feet**
- B. Minimum visibility requirements**
- C. Ceiling above ground level**
- D. Ground level requirements**

7. Longitude is defined as what type of lines on a map?

- A. Horizontal lines**
- B. Vertical lines**
- C. Circular lines**
- D. Diagonal lines**

8. What are VFR waypoints used for?

- A. For filing maintenance reports**
- B. For visual navigation along significant geographical points**
- C. For IFR pilots only**
- D. For communication among pilots**

9. What is an Area Navigation (RNAV) system?

- A. A communication system for pilots.**
- B. A system that allows aircraft to fly using waypoints rather than directly to/from navigational aids.**
- C. A method for measuring vertical speed.**
- D. A radar-based navigation aid.**

10. What must a pilot-in-command monitor regarding the aircraft?

- A. The aircraft's fuel consumption**
- B. The aircraft's weight and balance**
- C. The aircraft's engine temperature**
- D. The aircraft's passenger count**

Answers

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

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Explanations

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1. On a Sectional Chart, the unit of measurement for longitude and latitude is denoted as what?

- A. Meter**
- B. Foot**
- C. Degree**
- D. Second**

On a Sectional Chart, the unit of measurement for longitude and latitude is represented in degrees. This system is crucial for navigation and positioning on the Earth's surface, as latitude specifies how far north or south a point is from the Equator, while longitude indicates how far east or west a point is from the Prime Meridian. Degrees provide a measurable scale that is universally used in navigation, helping pilots and navigators determine their exact location and navigate safely through airspace. Using degrees for latitude and longitude allows for the systematic plotting of positions on a map, making it an essential concept in aeronautical navigation. Other units, such as meters or feet, are not typically used to express the angular measurements of latitude and longitude, and while seconds can be relevant in more precise geographic measurements, the primary unit for the broad context of coordinates on a Sectional Chart is indeed degrees.

2. What role does communication play when pilots encounter changing airspace classifications?

- A. It is optional and can be bypassed**
- B. It ensures compliance with new regulations**
- C. It allows for coordination with other aircraft**
- D. It helps in receiving updates on air traffic status**

Communication plays a crucial role in allowing for coordination with other aircraft when pilots encounter changing airspace classifications. As airspace classifications are adjusted, the operating rules and requirements for pilots can change. Effective communication is essential to ensure that pilots are aware of each other's positions and intentions, which helps prevent misunderstandings and enhances safety. In dynamic situations, where airspace classification can shift from, for example, uncontrolled to controlled airspace, pilots must communicate their intentions and any changes in their flight paths. This coordination is vital to maintain safe distances and establish proper separation among aircraft, especially in congested airspace. By sharing their plans and situational awareness through radio communication, pilots can effectively respond to any alterations in airspace structure and ensure a smoother operational flow.

3. Which of the following are the two categories of airspace in the NAS?

- A. Public and Private**
- B. Regulatory and Non-Regulatory**
- C. Controlled and Uncontrolled**
- D. Military and Civilian**

The correct categories of airspace in the National Airspace System (NAS) are primarily classified as controlled and uncontrolled. Controlled airspace is where air traffic control (ATC) services are provided to regulate aircraft operations and ensure safe separation between them. This includes airspace classes A, B, C, and D, where specific rules and requirements apply for operating within those structures. Uncontrolled airspace, on the other hand, is where ATC services are not mandated, allowing pilots to operate with more freedom, typically found in Class E and G airspace. Pilots operating in uncontrolled airspace are still expected to follow certain regulations, such as maintaining visual separation from other aircraft, but they are not required to communicate with air traffic control. While the option mentioning regulatory and non-regulatory might seem relevant, it does not accurately reflect the primary categorization of airspace that most affects operations in the NAS. The focus on controlled versus uncontrolled is essential for understanding how different airspaces function and how air traffic management is achieved within them.

4. What airspace begins at surface level up to 2,500 feet AGL near airports?

- A. Class E airspace**
- B. Class C airspace**
- C. Class D airspace**

Class D airspace is the correct answer, as it specifically denotes airspace that extends from the surface up to 2,500 feet above ground level (AGL) surrounding airports with an operational control tower. This type of airspace is established to manage air traffic in the vicinity of airports and ensure safe separation between aircraft, particularly as they are taking off and landing. The defining characteristic of Class D airspace is its surface-level designation, which means it begins right at the ground and extends vertically up to 2,500 feet. This allows for the management of traffic patterns and provides a designated area for both arriving and departing aircraft to operate safely. While Class E airspace also exists at varying altitudes, it typically extends from 1,200 feet AGL or higher, and does not have the same operational control measures as Class D airspace near an airport. Similarly, Class C airspace surrounds larger airports with a significant volume of traffic, extending upward from the surface but typically starting at a higher altitude than Class D airspace and with a more structured air traffic control approach. Understanding the various classes of airspace is essential for pilots to navigate safely and comply with air traffic control regulations, particularly in busy airport environments.

5. What is the floor of the Savannah Class C airspace at the shelf area?

- A. 1,300 feet AGL
- B. 1,300 feet MSL**
- C. 1,700 feet MSL

In the context of airspace classification, the shelf area of Class C airspace typically has a defined altitude floor, which is crucial for pilots to understand aircraft operating altitudes and for managing air traffic effectively. In the case of Savannah's Class C airspace, the shelf area is designated with a floor of 1,300 feet MSL (Mean Sea Level). This altitude is significant because it indicates the vertical limit above which certain airspace regulations and air traffic control services apply. The reference to MSL instead of AGL (Above Ground Level) is important, as MSL provides a consistent baseline across different elevations and locations, ensuring that the altitude measures are universally applicable regardless of geographical variances. Consequently, pilots operating within the Savannah Class C airspace must be aware that any flights at or below this altitude will require appropriate communication and compliance with air traffic control directives. Understanding this altitude helps in maintaining safe distances from other aircraft and adhering to the established protocols in controlled airspace.

6. What does the symbol "25" in brackets signify in Class D airspace?

- A. Altitude in feet**
- B. Minimum visibility requirements
- C. Ceiling above ground level
- D. Ground level requirements

In Class D airspace, the symbol "25" in brackets signifies a ceiling above ground level, specifically indicating that the ceiling is at 2,500 feet. This information is critical for pilots as it provides essential data regarding the vertical limits of the airspace. Understanding the ceiling is vital for maintaining proper separation between aircraft and for adhering to visual flight rules (VFR) during flight operations. While other options may seem relevant to the context of airspace regulations and operations, the representation of "25" directly correlates to the height that is above ground level, distinguishing it from altitude or minimum visibility requirements, which are different concepts altogether. The ceiling information helps pilots gauge their altitude in relation to both the airspace and the terrain.

7. Longitude is defined as what type of lines on a map?

- A. Horizontal lines
- B. Vertical lines**
- C. Circular lines
- D. Diagonal lines

Longitude is defined as vertical lines on a map that run from the North Pole to the South Pole. These lines help in measuring the angular distance of a location east or west from the Prime Meridian, which is set at 0 degrees longitude. By convention, longitude lines are drawn vertically because they connect areas of the Earth in a way that reflects the globe's spherical shape. Each degree of longitude becomes narrower as they approach the poles, which further emphasizes their vertical orientation. This vertical arrangement allows for a systematic approach to navigation and charting the Earth, enabling easy calculation of time zones and locations. In contrast, horizontal lines, which are known as lines of latitude, measure distances north or south of the Equator. Circular lines could imply lines of latitude at different degrees that form circles around the Earth, and diagonal lines do not accurately represent the consistent manner in which longitude is depicted on maps.

8. What are VFR waypoints used for?

- A. For filing maintenance reports
- B. For visual navigation along significant geographical points**
- C. For IFR pilots only
- D. For communication among pilots

VFR waypoints are specifically designed to aid visual flight rules (VFR) pilots in navigation. These waypoints mark significant geographical locations that pilots can use for visual references during their flight. They help in maintaining awareness of one's location, facilitating easier navigation through familiar landmarks, and ensuring situational awareness. By using these waypoints, pilots can better plan their routes and navigate effectively in uncontrolled airspace or in areas where visual cues are essential. While other options might relate to aviation activities or procedures, they do not pertain to the primary function of VFR waypoints, which is centered around enhancing navigation for VFR pilots through recognizable geographical points. Therefore, the correct answer highlights the essential role these waypoints play in visual navigation.

9. What is an Area Navigation (RNAV) system?

- A. A communication system for pilots.
- B. A system that allows aircraft to fly using waypoints rather than directly to/from navigational aids.**
- C. A method for measuring vertical speed.
- D. A radar-based navigation aid.

An Area Navigation (RNAV) system is designed to enable an aircraft to navigate using defined waypoints rather than relying solely on traditional navigational aids located on the ground. This capability allows for more flexible flight paths, optimized routes, and improved efficiency in air traffic management. By utilizing waypoints, pilots can follow more direct routes, reducing flight times and fuel consumption. RNAV systems incorporate various types of navigation technologies, including GPS, to determine the aircraft's position with precision, making it an essential advancement in modern aviation navigation. The other options represent different aspects of aviation but do not accurately define an RNAV system. Communication systems for pilots focus on communication between air traffic control and the crew, while methods for measuring vertical speed pertain to altitude change rather than navigation. Radar-based navigation aids, while useful, involve ground-based systems that provide positional information rather than the waypoints featured in RNAV systems. Thus, the proper recognition of how RNAV functions makes option B the correct choice.

10. What must a pilot-in-command monitor regarding the aircraft?

- A. The aircraft's fuel consumption
- B. The aircraft's weight and balance**
- C. The aircraft's engine temperature
- D. The aircraft's passenger count

Monitoring the aircraft's weight and balance is a crucial responsibility of the pilot-in-command because it directly impacts the aircraft's performance, safety, and handling characteristics. Each aircraft has specific weight limits and balance configurations that must be adhered to for safe flight operations. An improper weight and balance can lead to issues such as reduced control effectiveness, increased stall speed, and difficulty in managing trim and control surfaces. Weight and balance calculations involve ensuring that the total weight of the aircraft does not exceed the maximum allowable weight and that the center of gravity is within specified limits throughout the flight. This includes accounting for passengers, cargo, and fuel. If the weight is too far forward or backward, it can affect the aircraft's stability and maneuverability during takeoff, flight, and landing phases. While monitoring fuel consumption, engine temperature, and passenger count are also important aspects of flight operations, they do not carry the same immediate implications for safety and control as weight and balance. Fuel consumption and engine temperature relate more to performance and maintenance, while passenger count is primarily a logistical consideration. In contrast, weight and balance are fundamental to the aircraft's structural integrity and flying characteristics.

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://natlairspacestest.examzify.com>

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

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