

Air Traffic Control (ATC) Basics Block 3 Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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 reference line for measuring north/south distances?**
 - A. Prime meridian**
 - B. Equator**
 - C. 180th meridian**
 - D. Tropic of Cancer**

- 2. What does the (A)* symbolize in the data for an airport on En Route Low Altitude Charts?**
 - A. Full-time control tower**
 - B. Ground radar control**
 - C. ATIS availability**
 - D. Air traffic advisory service**

- 3. Who is responsible for maintaining separation when an aircraft is responding to a TCAS alert?**
 - A. ATC**
 - B. Flight Crew**
 - C. Both ATC and Flight Crew**
 - D. None of the above**

- 4. Which of the following lines indicates that a correction for magnetic variation is unnecessary?**
 - A. Agonic line**
 - B. Isogonic line**
 - C. True heading line**
 - D. Deviation line**

- 5. What phenomenon occurs when an aircraft is banked too little for the amount of rudder applied?**
 - A. Excess yaw**
 - B. Skidding**
 - C. Stalling**
 - D. Climbing**

- 6. Which chart provides aeronautical information for en route navigation during IFR at or above 18,000 MSL?**
- A. En Route Low Altitude Chart**
 - B. En Route High Altitude Chart**
 - C. Sectional Chart**
 - D. Terminal Area Chart**
- 7. What term describes a procedure designed to manage arrivals at busy airports?**
- A. STAR**
 - B. SID**
 - C. Route Clearance**
 - D. Approach Procedure**
- 8. Which section of the SID chart is primarily focused on graphical layouts?**
- A. Textual Description**
 - B. Margin Information**
 - C. Planview**
 - D. Chart Legends**
- 9. Which direction do odd-numbered VOR airways/jet routes run?**
- A. East/West**
 - B. North/South**
 - C. North/East**
 - D. South/West**
- 10. What uniquely identifies NAVAIDs that provide HIWAS broadcasts?**
- A. They have an asterisk next to their frequency**
 - B. They include a specific color coding system**
 - C. They feature a blue filled-in circle with a white H**
 - D. They are marked with a unique symbol**

Answers

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

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Explanations

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1. What is the reference line for measuring north/south distances?

- A. Prime meridian**
- B. Equator**
- C. 180th meridian**
- D. Tropic of Cancer**

The Equator serves as the reference line for measuring north/south distances on the Earth's surface. It is an imaginary line that divides the Earth into the Northern and Southern Hemispheres and is situated at zero degrees latitude. Distances north and south of the Equator are measured in degrees of latitude, with the North Pole at 90 degrees north and the South Pole at 90 degrees south. This system allows for precise navigation and geographical reference across the globe, making the Equator the fundamental baseline for establishing latitude. In contrast, while the Prime Meridian is significant for measuring east/west distances (longitude), it does not pertain to north/south measurements. The 180th meridian is also related to longitude and serves as the anti-meridian to the Prime Meridian. The Tropic of Cancer, situated at approximately 23.5 degrees north latitude, is important for solar calculations but not for establishing the basic system of latitude measurements that begins at the Equator.

2. What does the (A)* symbolize in the data for an airport on En Route Low Altitude Charts?

- A. Full-time control tower**
- B. Ground radar control**
- C. ATIS availability**
- D. Air traffic advisory service**

The symbol (A)* on En Route Low Altitude Charts indicates the availability of the Automatic Terminal Information Service (ATIS) at an airport. ATIS is a continuous broadcast of recorded information regarding weather conditions, runways in use, and other critical information relevant to pilots as they approach and land at an airport. The presence of this symbol informs pilots that they can access this vital information when preparing to arrive at the airport, aiding in their situational awareness and decision-making processes in the terminal airspace. This distinguishes it from other symbols which represent different operational aspects, such as control tower presence or radar services, thus specifically focusing on the communication of pre-recorded information that enhances safety and efficiency in aviation operations.

3. Who is responsible for maintaining separation when an aircraft is responding to a TCAS alert?

- A. ATC
- B. Flight Crew**
- C. Both ATC and Flight Crew
- D. None of the above

The responsibility for maintaining separation when an aircraft is responding to a Traffic Collision Avoidance System (TCAS) alert falls to the flight crew. This system is designed to enhance flight safety by providing information and resolution advisories to the pilots when a potential collision with another aircraft is detected. When TCAS generates an alert, the pilots are trained to take immediate action to either climb or descend according to the instructions provided by the TCAS. It is crucial during such scenarios for the flight crew to prioritize the TCAS advisories to ensure vertical separation from potentially conflicting aircraft. While Air Traffic Control (ATC) has a pivotal role in managing air traffic and providing instructions under normal operations, once a TCAS alert is triggered, the flight crew assumes the responsibility to respond without needing to communicate with ATC. This ensures rapid and decisive action to prevent mid-air collisions, as the flight crew has the immediate situational awareness required to execute the necessary maneuvers. In support of this, ATC will typically be aware of the situation and may assist or provide further instructions after the flight crew has responded to the TCAS alert, ensuring a coordinated response once the immediate threat is mitigated.

4. Which of the following lines indicates that a correction for magnetic variation is unnecessary?

- A. Agonic line**
- B. Isogonic line
- C. True heading line
- D. Deviation line

The agonic line is significant in navigation and aviation because it represents the line on the Earth's surface where magnetic north and true north align perfectly, meaning there is no magnetic variation. When aircraft navigate along or across this line, they do not need to make any corrections for magnetic variation. This is crucial for achieving accurate navigation, as catering to magnetic changes is vital when calculating headings and routes. Therefore, when pilots or air traffic controllers reference the agonic line, they can be assured that no additional adjustments are required to convert between magnetic and true headings.

5. What phenomenon occurs when an aircraft is banked too little for the amount of rudder applied?

- A. Excess yaw
- B. Skidding**
- C. Stalling
- D. Climbing

When an aircraft is banked too little for the amount of rudder being applied, the resulting phenomenon is skidding. This occurs because the rudder is used to control the yaw of the aircraft, and if the bank angle does not adequately correspond to the rudder input, the aircraft will not turn as intended. Instead, it will continue to move in the direction of the original flight path, leading to a state where it is moving sideways during a turn—this is referred to as skidding. In this scenario, the aircraft's excessive lateral motion on the horizontal plane can create an uncomfortable experience for pilots and passengers alike and can lead to a loss of control if not corrected. Proper coordination of bank angle and rudder input is crucial for maintaining controlled turns and avoiding skidding, which emphasizes the importance of understanding aerodynamic principles in flight operations.

6. Which chart provides aeronautical information for en route navigation during IFR at or above 18,000 MSL?

- A. En Route Low Altitude Chart
- B. En Route High Altitude Chart**
- C. Sectional Chart
- D. Terminal Area Chart

The En Route High Altitude Chart is specifically designed to provide critical aeronautical information for flights operating under Instrument Flight Rules (IFR) at altitudes of 18,000 feet Mean Sea Level (MSL) and above. This chart features relevant navigation information such as jet routes, airways, waypoints, VOR (VHF Omnidirectional Range) navigation aids, and other necessary details that help pilots navigate safely at higher altitudes. In contrast, the En Route Low Altitude Chart caters to aircraft operating below 18,000 feet, which is not applicable for this scenario. Sectional Charts are primarily intended for visual flight rules (VFR) navigation and do not provide the necessary detail for IFR operations at high altitudes. Terminal Area Charts are focused on operations in the vicinity of airports and are not suitable for en route navigation above 18,000 feet. Therefore, the En Route High Altitude Chart is the correct choice for IFR navigation at the specified altitude.

7. What term describes a procedure designed to manage arrivals at busy airports?

A. STAR

B. SID

C. Route Clearance

D. Approach Procedure

The term that describes a procedure designed to manage arrivals at busy airports is known as a Standard Terminal Arrival Route (STAR). A STAR is a pre-defined flight path established to guide aircraft from the en route phase to the terminal area with increased efficiency and safety. This procedure helps to streamline traffic into busy airports where the volume of arriving flights can create congestion. Using a STAR allows air traffic controllers to sequence arrivals, minimize delays, and efficiently manage the flow of air traffic. By following these established routes, pilots can also anticipate the required altitudes and speeds, ensuring more organized and predictable landings. The other options represent different types of aviation procedures that serve distinct purposes: a Standard Instrument Departure (SID) aids in the initial climb from the airport, Route Clearance involves the plan given to pilots prior to departure, and an Approach Procedure governs the maneuvering of aircraft as they descend toward the runway for landing. Each serves its function, but the STAR specifically addresses the management of arrivals, making it the correct choice here.

8. Which section of the SID chart is primarily focused on graphical layouts?

A. Textual Description

B. Margin Information

C. Planview

D. Chart Legends

The section of the Standard Instrument Departure (SID) chart that is primarily focused on graphical layouts is the Planview. This area provides a visual representation of the departure route, showing the course that an aircraft should follow after takeoff. The graphical layout includes landmarks, navigational aids, waypoints, and altitude information, which together help pilots visualize and understand the specific flight path required for their departure. In the context of a SID chart, Planview is essential because it allows pilots to interpret the route and altitude changes visually, ensuring they follow the correct trajectory while managing their ascent and transitioning from the initial departure phase. This graphical element is critical in enhancing situational awareness and contributing to safe flight operations. Other sections serve different purposes; for example, the textual description details the procedures and instructions but does not focus on the layout in a visual format. Margin information typically provides supplementary details but is not the main focus of the route. The chart legends offer definitions and symbols used throughout the SID, aiding in interpretation but again not mainly focusing on the graphical layout itself.

9. Which direction do odd-numbered VOR airways/jet routes run?

- A. East/West
- B. North/South**
- C. North/East
- D. South/West

Odd-numbered VOR airways and jet routes are designated to run predominantly in a North/South direction. This means that these routes are designed to facilitate traffic that is primarily traveling toward the poles, which is often the case for flights that require more latitude. By establishing these routes, air traffic control can effectively organize and manage traffic flow, ensuring that aircraft traveling in similar directions maintain safe distances from one another. In air traffic management, the numbering system for airways and jet routes follows a convention where odd numbers are assigned to routes that run from the southern latitudes towards the northern latitudes. Conversely, even-numbered routes typically run in an East/West direction. This systematic approach aids pilots and air traffic controllers in navigating effectively, improving safety and efficiency in the airspace system.

10. What uniquely identifies NAVAIDs that provide HIWAS broadcasts?

- A. They have an asterisk next to their frequency
- B. They include a specific color coding system
- C. They feature a blue filled-in circle with a white H**
- D. They are marked with a unique symbol

NAVAIDs that provide Hazardous Inflight Weather Advisory Service (HIWAS) broadcasts are uniquely identified by a blue filled-in circle with a white "H." This symbol is specifically used to denote locations where HIWAS is available, making it easy for pilots to identify these critical advisory services on aeronautical charts. The intent behind this designation is to enhance pilot awareness and ensure they have access to vital weather information during flight operations. The visual representation provided by the blue filled-in circle with a white "H" serves as a clear and standardized way for aviators to recognize NAVAIDs that contribute to safety by broadcasting real-time weather information and other pertinent advisories. Other potential identifiers, such as frequency markings or color codes, do not convey the specific relationship to HIWAS service. Consequently, the blue filled-in circle with a white "H" remains the defining characteristic for these NAVAIDs, ensuring standardized communication and understanding within aviation operations.

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://atcbasicsblock3.examzify.com>

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

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