

TRAINER HELICOPTER, DESIGN NUMBER 73 (TH-73) SYSTEMS PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED 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. 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 are the three sections of the transmission?**
 - A. Gearbox, RGB, AGB
 - B. Upper case, RGB, AGB
 - C. Upper case, lower case, AGB
 - D. Mast, RGB, AGB
- 2. What is a primary benefit of the inertial navigation system in the TH-73?**
 - A. It eliminates the need for GPS
 - B. It provides real-time updates on weather conditions
 - C. It allows for navigation without external references
 - D. It enhances fuel efficiency
- 3. How are the sides of the Trainer Helicopter defined?**
 - A. North-East and South-West
 - B. Port-1 and Stbd-2
 - C. Left and Right
 - D. Fore and Aft
- 4. Where are the boost pumps located in the fuel system?**
 - A. #1 tank
 - B. #2 tank
 - C. Aft sections
 - D. Upper cell
- 5. How many igniters are used in the TH-73 helicopter?**
 - A. 1
 - B. 2
 - C. 3
 - D. 4
- 6. Where are the taxi and landing lights located on the TH-73?**
 - A. Inside the cockpit
 - B. Underneath the rear fuselage
 - C. Both underneath cockpit forward of cross beam
 - D. On the rotor blades

- 7. What kind of navigation does the TH-73 NOT primarily rely on for effective operation?**
- A. Satellite navigation
 - B. Visual navigation
 - C. Inertial navigation
 - D. Acoustic navigation
- 8. Where are the two chip detectors situated within the transmission?**
- A. Upper case and AGB
 - B. Lower case and RGB
 - C. AGB and the tail rotor
 - D. Upper case and lower case
- 9. How does the TH-73 enhance situational awareness for the pilot?**
- A. Through enhanced visual flight rules (VFR) training
 - B. By using advanced avionics for real-time data and intuitive displays
 - C. By training pilots with simulation-based exercises
 - D. Through simpler cockpit controls
- 10. Where is the engine oil reservoir located?**
- A. In the cockpit
 - B. Inside the main rotor assembly
 - C. Attached to the engine
 - D. The AGB

Answers

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

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Explanations

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1. What are the three sections of the transmission?

- A. Gearbox, RGB, AGB
- B. Upper case, RGB, AGB**
- C. Upper case, lower case, AGB
- D. Mast, RGB, AGB

The correct answer identifies the three main components of the helicopter's transmission system, which are pivotal in delivering power from the engine to the rotors. In the context of the TH-73, the terms "Upper case," "RGB" (Reduction Gearbox), and "AGB" (Accessory Gearbox) accurately represent sections of the transmission. The upper case refers to the main section that houses the primary components of the transmission and is critical for maintaining the structural integrity of these systems. The RGB serves to reduce the high rotational speeds from the engine to appropriate speeds for rotor operation, which is essential for efficient power transmission. The AGB transfers power to various accessories such as the hydraulic pumps and generators, playing a vital role in the overall functionality of the helicopter. This combination is essential for the effective operation of the helicopter's flight systems, making it crucial to understand these components and their interactions. Understanding the roles of each section allows for better insight into how they collaboratively ensure the helicopter's performance and reliability in flight.

2. What is a primary benefit of the inertial navigation system in the TH-73?

- A. It eliminates the need for GPS
- B. It provides real-time updates on weather conditions
- C. It allows for navigation without external references**
- D. It enhances fuel efficiency

The inertial navigation system (INS) in the TH-73 plays a crucial role in navigation by allowing the aircraft to determine its position, velocity, and attitude without relying on external references. This self-contained navigation capability is particularly beneficial in environments where GPS signals may be impaired or unavailable, such as in urban canyons, heavily wooded areas, or during electronic warfare scenarios. By utilizing various sensors, including accelerometers and gyroscopes, the INS continuously calculates the aircraft's position based on its last known location. This feature ensures that the helicopter can navigate accurately and autonomously, providing pilots with a reliable means of navigation even when external systems cannot be relied upon. Hence, the capability to navigate without external references is a primary advantage of the inertial navigation system.

3. How are the sides of the Trainer Helicopter defined?

- A. North-East and South-West
- B. Port-1 and Stbd-2**
- C. Left and Right
- D. Fore and Aft

The sides of the Trainer Helicopter, specifically in the context of aviation terminology, are defined using the terms "Port" and "Starboard." "Port" refers to the left side of the aircraft when facing forward, while "Starboard" refers to the right side. This system is used universally in aviation and maritime contexts to eliminate confusion that could arise from using more ambiguous directional terms like left and right, which can change based on the observer's position. By using designated terms such as Port-1 and Starboard-2, it ensures that everyone involved in operating or servicing the helicopter has a clear and consistent understanding of directionality, enhancing communication and safety. This is particularly important in emergency situations or when coordinating actions during flight operations. Therefore, this choice accurately reflects the standardized nomenclature used to identify the sides of the Trainer Helicopter.

4. Where are the boost pumps located in the fuel system?

- A. #1 tank
- B. #2 tank
- C. Aft sections
- D. Upper cell

The boost pumps in the TH-73 fuel system are located in the #1 tank. These pumps are essential components that help maintain fuel flow from the tank to the engines, particularly during operations at low fuel levels or when the aircraft is in unusual attitudes. Having the boost pumps in the #1 tank ensures that the fuel is readily available and pressurized, which is particularly important for engine performance and reliability. In many helicopter fuel systems, the role of boost pumps is to provide positive pressure to the fuel lines, ensuring that the fuel delivery system functions properly under all flight conditions. Their placement in the #1 tank plays a critical role in the overall fuel management system of the helicopter.

5. How many igniters are used in the TH-73 helicopter?

- A. 1
- B. 2
- C. 3
- D. 4

The TH-73 helicopter is equipped with two igniters, which serve critical functions during the engine start process. Having two igniters enhances the reliability of the ignition system, ensuring that the engine can start effectively under various conditions. This redundancy is important for safety and operational efficiency, allowing for successful ignition even if one igniter were to fail. The design of using two igniters reflects standard practices in aviation, where added safety measures are crucial. In summary, the utilization of two igniters is a deliberate engineering choice to enhance operational reliability and safety.

6. Where are the taxi and landing lights located on the TH-73?

- A. Inside the cockpit
- B. Underneath the rear fuselage
- C. Both underneath cockpit forward of cross beam
- D. On the rotor blades

The taxi and landing lights on the TH-73 are located underneath the cockpit, specifically forward of the cross beam. This positioning allows for optimal illumination of the area in front of the helicopter during low-speed maneuvers, such as taxiing and landing, ensuring better visibility for the pilot during critical phases of flight. The lights are designed to project sufficient brightness to aid in ground operations, while being strategically placed to minimize obstruction and enhance safety. The other potential locations are less suitable for their intended function; for instance, having the lights inside the cockpit would limit visibility outside, and mounting them on the rotor blades would expose them to potential damage and restrict their effectiveness during landing or taxiing operations. Thus, the design choice to place them in front of the cross beam aids both functionality and safety.

7. What kind of navigation does the TH-73 NOT primarily rely on for effective operation?

- A. Satellite navigation
- B. Visual navigation
- C. Inertial navigation
- D. Acoustic navigation**

The TH-73 primarily relies on satellite navigation, visual navigation, and inertial navigation for its operational effectiveness. Satellite navigation systems, such as GPS, provide precise positioning and timing information essential for flight operations, while visual navigation allows pilots to orient themselves based on visual references from the ground. Inertial navigation systems use onboard sensors to calculate the aircraft's position based on its velocity and orientation over time, which is crucial for maintaining situational awareness during flight. Acoustic navigation, on the other hand, is not a primary means of navigation for the TH-73. This method typically involves using sound waves to determine location, which is more commonly used in underwater navigation systems for submarines and other aquatic vehicles rather than in aircraft. Thus, the TH-73 does not leverage acoustic navigation for its operations, making it the correct choice in this context.

8. Where are the two chip detectors situated within the transmission?

- A. Upper case and AGB**
- B. Lower case and RGB
- C. AGB and the tail rotor
- D. Upper case and lower case

The correct answer indicates that the two chip detectors are located in the upper case and the accessory gear box (AGB). This is essential for monitoring the health and performance of the transmission system in the TH-73 helicopter. Chip detectors play a critical role in the overall reliability of the helicopter's transmission system by detecting metal particles that can indicate wear or failure of internal components. By positioning one detector in the upper case, engineers ensure monitoring of the main rotor's immediate transmission environment, while the second in the AGB allows for detection of any debris originating from the auxiliary systems attached to the transmission. This placement helps provide comprehensive coverage for potential issues that could arise in both high-load and accessory gearbox environments, ensuring that any signs of deterioration or potential failure are caught early, promoting safety and reliability in flight operations.

9. How does the TH-73 enhance situational awareness for the pilot?

- A. Through enhanced visual flight rules (VFR) training
- B. By using advanced avionics for real-time data and intuitive displays**
- C. By training pilots with simulation-based exercises
- D. Through simpler cockpit controls

The TH-73 enhances situational awareness for the pilot primarily through its advanced avionics system, which provides real-time data and intuitive displays. This system allows pilots to access crucial information quickly and efficiently, facilitating decision-making during flight operations. The integration of various sensors and displays can include navigation data, weather information, traffic alerts, and system status all presented in a clear and organized manner. By leveraging technology to present complex information in an easily digestible format, pilots can maintain a higher level of awareness regarding their surroundings, which is essential for flight safety and operation. This capability is particularly important in varied flight environments where quick reactions to changing conditions can make a significant difference in outcomes. Advanced avionics support not just the operational aspects of flying but also contribute to the overall training and confidence levels of student pilots as they prepare for real-world flying scenarios.

10. Where is the engine oil reservoir located?

- A. In the cockpit
- B. Inside the main rotor assembly
- C. Attached to the engine

D. The AGB

The engine oil reservoir is situated at the accessory gearbox (AGB), which is a critical component in the helicopter's powertrain system. The AGB is responsible for housing various accessories driven by the engine, such as the oil pump, electrical generators, and other systems that require engine power. By placing the oil reservoir in the AGB, the design ensures that the oil can effectively circulate to all necessary components, including the engine and various accessories, optimizing lubrication and cooling. This location also allows for efficient management of oil levels and easy access for maintenance, minimizing the potential for oil leaks and ensuring that the oil can rapidly flow to where it is needed during operation. This strategic positioning contributes to the overall efficiency and reliability of the helicopter's engine operation and support systems, making it a vital aspect of the TH-73's design.

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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.

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

<https://th73systems.examzify.com>

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

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