

HSC-3 Plane Captain Practice Test (Sample)

Study Guide



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Questions

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- 1. What must you use when opening the dog house in windy conditions?**
 - A. A single strap**
 - B. Dog house straps and one person**
 - C. Dog house straps and two people**
 - D. None of the above**
- 2. What is the primary purpose of NATOPS?**
 - A. To provide general aviation training guidelines**
 - B. To standardize flight operations and procedures**
 - C. To establish maintenance protocols for aircraft**
 - D. To offer guidelines for personnel management**
- 3. What materials are required to secure the aircraft after safely landing on mattresses?**
 - A. Only ropes**
 - B. Only tie-down chains**
 - C. Minimum of four cargo straps**
 - D. Two elevators and two jacks**
- 4. What specific type of goggles is required during fuel sampling?**
 - A. Regular safety goggles**
 - B. Splash proof goggles**
 - C. Anti-fog goggles**
 - D. Dark tinted goggles**
- 5. How long is a Daily inspection valid for?**
 - A. 48 hours**
 - B. 72 hours**
 - C. 96 hours**
 - D. 120 hours**

- 6. What additional items are essential for PPE when handling fuel?**
- A. Hearing protection**
 - B. Long pants**
 - C. Face shield**
 - D. All of the above**
- 7. Identify the PMU assigned to engines in aircraft systems.**
- A. PMU-70**
 - B. PMU-71**
 - C. PMU-72**
 - D. PMU-74**
- 8. What is an inappropriate place to park an aircraft without engaging the tail wheel?**
- A. Runway**
 - B. Hangar**
 - C. Wash rack**
 - D. Awning**
- 9. What is required before opening the dog house in terms of wind conditions for the H60H?**
- A. No wind restriction**
 - B. 5 knots**
 - C. 10 knots**
 - D. 15 knots**
- 10. At what PSI is the rotor brake considered inoperative?**
- A. 410 PSI**
 - B. 430 PSI**
 - C. 450 PSI**
 - D. 470 PSI**

Answers

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

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Explanations

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1. What must you use when opening the dog house in windy conditions?

- A. A single strap**
- B. Dog house straps and one person**
- C. Dog house straps and two people**
- D. None of the above**

When opening the dog house in windy conditions, it is essential to employ dog house straps and utilize two people for safety and control. The use of dog house straps helps secure the door against the wind, reducing the chance of it swinging violently or causing injury. Utilizing two people allows for better management of the door's weight and movement, ensuring that both individuals can control it effectively. This dual-person approach fosters a safer working environment and minimizes risks associated with strong gusts of wind that could lead to accidents or injury. In summary, using both straps and two people creates a safer method for accessing the dog house under potentially hazardous conditions.

2. What is the primary purpose of NATOPS?

- A. To provide general aviation training guidelines**
- B. To standardize flight operations and procedures**
- C. To establish maintenance protocols for aircraft**
- D. To offer guidelines for personnel management**

The primary purpose of NATOPS, which stands for Naval Aviation Training and Operating Procedures Standardization, is to standardize flight operations and procedures. This standardization is essential for maintaining safety and efficiency across various naval aviation activities. By providing a set of consistent procedures and guidelines, NATOPS enhances the operational readiness of naval aviators and aircrew members. Standardized procedures help mitigate risks associated with flight operations, ensuring that all personnel involved have a clear understanding of the protocols to follow in various situations. This is particularly vital in high-stakes environments, where adherence to established procedures can significantly affect mission success and crew safety. The emphasis on standardization also promotes effective communication among crews and reduces the likelihood of errors that can occur when different practices are used in similar situations. In contrast, while the other choices mention important aspects of aviation and military operations, they do not encapsulate the primary focus of NATOPS as thoroughly as standardizing flight operations does. General aviation training guidelines, maintenance protocols, and personnel management are all crucial components of naval aviation, but they serve different functions and are not the central goal of NATOPS.

3. What materials are required to secure the aircraft after safely landing on mattresses?

- A. Only ropes**
- B. Only tie-down chains**
- C. Minimum of four cargo straps**
- D. Two elevators and two jacks**

The requirement to use a minimum of four cargo straps after safely landing on mattresses is based on ensuring the aircraft remains securely in place, preventing any movement that could occur due to wind or ground vibrations. Cargo straps are designed to provide strong and reliable securing points that can withstand various forces that an aircraft might experience on the ground. Using a minimum of four straps is particularly important for stability, as it helps distribute the forces evenly across the aircraft's structure. This practice helps maintain the integrity of the aircraft's position and prevents any potential damage that could occur from shifting or rolling due to environmental conditions. The other materials mentioned, such as ropes or tie-down chains, may not provide the same level of security and reliability needed for securing an aircraft on mattresses. Utilizing inadequate securing methods could lead to safety hazards. Meanwhile, using elevators and jacks is more associated with lifting or positioning the aircraft rather than securing it after landing. Therefore, cargo straps are the most appropriate and effective choice for this situation.

4. What specific type of goggles is required during fuel sampling?

- A. Regular safety goggles**
- B. Splash proof goggles**
- C. Anti-fog goggles**
- D. Dark tinted goggles**

When conducting fuel sampling, the use of splash proof goggles is essential for ensuring safety. Fuel can contain hazardous materials and may pose risks of splashes during the sampling process, which could lead to skin or eye contact with harmful substances. Splash proof goggles provide a secure barrier that protects the eyes from any accidental splashes, reducing the risk of chemical exposure and potential injuries. The other types of goggles mentioned may not offer the same level of protection against splashes. Regular safety goggles may not be designed to prevent liquid penetration effectively, while anti-fog goggles primarily serve to prevent fogging during use rather than protecting against splashes. Dark tinted goggles are typically used to protect against glare or bright lights, but they do not offer the necessary features to safeguard against chemical splashes. Therefore, splash proof goggles are the appropriate choice for this task.

5. How long is a Daily inspection valid for?

- A. 48 hours**
- B. 72 hours**
- C. 96 hours**
- D. 120 hours**

The validity of a Daily inspection is 72 hours. This timeframe is critical in aviation maintenance as it ensures that aircraft are regularly inspected and any potential issues are identified before they can affect flight safety. Daily inspections are performed to check various systems and components of the aircraft to confirm their proper functioning and compliance with safety regulations. If the inspection is conducted and the aircraft is not flown within 72 hours, it is essential to conduct another Daily inspection before further operations to ensure continued airworthiness. This 72-hour validity helps maintain a high standard of safety and reliability in aviation operations.

6. What additional items are essential for PPE when handling fuel?

- A. Hearing protection**
- B. Long pants**
- C. Face shield**
- D. All of the above**

When handling fuel, it is crucial to prioritize personal protective equipment (PPE) to minimize the risks associated with exposure to hazardous materials. While all the listed items serve important safety functions, the correct answer emphasizes the specific necessity of a face shield as part of the PPE. A face shield is particularly vital in scenarios where there is a risk of splashes or spills. It provides protection for the face and eyes against chemical exposure, which can occur when handling fuels. Fuels are volatile and can cause serious injuries if they come into contact with the eyes or facial skin. The face shield acts as a barrier, preventing harmful substances from reaching sensitive areas. The other items—hearing protection and long pants—are generally important for safety in various working environments, but they are not as directly associated with the immediate hazards posed by fuel handling as a face shield is. Hearing protection is critical in loud environments, and long pants offer a basic level of protection. However, when it comes to the necessity of preventing exposure to fuels specifically, a face shield is paramount. Thus, the choice that emphasizes the face shield highlights the importance of protecting the most vulnerable areas when handling fuel, making it the essential item in this context.

7. Identify the PMU assigned to engines in aircraft systems.

- A. PMU-70**
- B. PMU-71**
- C. PMU-72**
- D. PMU-74**

The correct answer indicates that PMU-72 is responsible for managing engines in aircraft systems. The Power Management Unit (PMU) plays a crucial role at the system level, particularly in monitoring and controlling engine performance. It is designed to optimize engine operation by incorporating various functionalities such as fuel scheduling, ignition timing, and overall power output management. In this case, PMU-72 is specifically designated for these tasks, ensuring that the engines operate efficiently and safely under various flight conditions. Understanding the specific PMU assigned to aircraft engines is critical for maintenance personnel and flight crews because it aids in troubleshooting and optimizing performance, aligning with standard operating procedures and best practices. This knowledge directly influences aircraft reliability and safety during operations. The other options reference different PMUs, but only PMU-72 encompasses the functions and responsibilities outlined for engine management in aircraft systems, which highlights its importance in aviation operations.

8. What is an inappropriate place to park an aircraft without engaging the tail wheel?

- A. Runway**
- B. Hangar**
- C. Wash rack**
- D. Awning**

Parking an aircraft on the runway without engaging the tail wheel is inappropriate primarily because runways are designated for takeoffs and landings, not for stationary grounding of aircraft. The presence of an aircraft parked on the runway can obstruct operations, create safety hazards for other air traffic, and violate air traffic regulations. In contrast, a hangar is specifically designed for housing aircraft and provides protection from environmental elements, making it an appropriate location. The wash rack is intended for cleaning aircraft and is another suitable area for temporary parking. An awning serves as a cover but is not typically used for parking aircraft; however, it is generally not regulated in the same way as a runway. Thus, the runway stands out as the least appropriate option due to operational safety and regulatory compliance.

9. What is required before opening the dog house in terms of wind conditions for the H60H?

- A. No wind restriction**
- B. 5 knots**
- C. 10 knots**
- D. 15 knots**

Before opening the dog house of the H60H, it is crucial to consider specific wind conditions to ensure safe operational procedures. The correct answer—10 knots—indicates the minimum wind speed that is necessary before this action can be taken. This requirement is based on safety protocols designed to maintain control over the helicopter and prevent issues such as rotor blade interference during maintenance or inspections. At this wind speed, the risk of unexpected gusts or turbulence that could affect stability is mitigated. Wind conditions are a critical factor because they can significantly affect ground handling and maintenance activities. Understanding and adhering to this limitation is vital for the safety of personnel involved with the helicopter as well as the integrity of the aircraft itself during maintenance operations.

10. At what PSI is the rotor brake considered inoperative?

- A. 410 PSI**
- B. 430 PSI**
- C. 450 PSI**
- D. 470 PSI**

The correct PSI at which the rotor brake is considered inoperative is 450 PSI. This is an important operational benchmark for maintaining the safety and functionality of the rotor systems on helicopters. When the rotor brake pressure drops to this level, it indicates that the system may not provide sufficient stopping power for the rotor blades, thereby jeopardizing ground operations and possibly leading to dangerous situations during maintenance or pre-flight checks. Maintaining the correct pressure in the rotor brake system is crucial for ensuring that the brake engages effectively when needed. When pressure readings fall below this threshold, it signals that the rotor brake may not operate as intended, necessitating further inspection or maintenance before the aircraft can be deemed safe for operation. This threshold is established to uphold safety standards and prevent mishaps related to rotor control during ground operations.