

# MH-60S Plane Captain Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. How is the empennage of the MH-60S configured?**
  - A. With dual horizontal stabilizers and a single vertical fin**
  - B. With a horizontal stabilizer and a vertical fin**
  - C. Using canard wings for stability**
  - D. In a conventional tail design without fins**
- 2. What is the light mixing solution ratio?**
  - A. 1 part cleaner 4 parts water**
  - B. 1 part cleaner 9 parts water**
  - C. 1 part cleaner 7 parts water**
  - D. 1 part cleaner 5 parts water**
- 3. What must be included in the system description space for a corrosion MAF?**
  - A. Maintenance history**
  - B. CCDD: Julian date 28 days from when MAF is written**
  - C. Inspection records**
  - D. Repair history**
- 4. Which personnel must be present during the aircraft movement in the hangar?**
  - A. At least one pilot**
  - B. Only PC and Brake Rider**
  - C. PC, Brake Rider, and required safety personnel**
  - D. Any two crew members on the aircraft**
- 5. What percentage of total lifting force does the tail rotor provide in a hover?**
  - A. 1.5%**
  - B. 2.0%**
  - C. 2.5%**
  - D. 3.0%**

- 6. What is the significance of the Julian date mentioned in the MAF process?**
- A. Indicates inspection frequency**
  - B. Signals flight readiness**
  - C. Marks the intended repair timeframe**
  - D. Indicates safety compliance**
- 7. What does APU stand for in helicopter operation?**
- A. Auxiliary Power Unit**
  - B. Automatic Pilot Unit**
  - C. Aerodynamic Performance Unit**
  - D. Air Propulsion Unit**
- 8. What color is the beacon that signifies rotor engagement during flight operations?**
- A. Red**
  - B. Green**
  - C. Amber**
  - D. Blue**
- 9. What is the purpose of a Note in procedures?**
- A. To warn against potential hazards**
  - B. To advise of equipment malfunctions**
  - C. To highlight an important condition or requirement**
  - D. To list mandatory safety rules**
- 10. Why is crew fatigue particularly concerning during flight?**
- A. It can lead to complacency and reduced vigilance**
  - B. It allows for quicker decision-making**
  - C. It fosters informal team dynamics**
  - D. It enhances multitasking capabilities**

## **Answers**

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

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## **Explanations**

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## 1. How is the empennage of the MH-60S configured?

- A. With dual horizontal stabilizers and a single vertical fin
- B. With a horizontal stabilizer and a vertical fin**
- C. Using canard wings for stability
- D. In a conventional tail design without fins

The empennage of the MH-60S is configured with a horizontal stabilizer and a vertical fin, which is characteristic of many helicopter designs, including the MH-60S. This configuration provides the necessary stability and control during flight operations. The horizontal stabilizer aids in the pitch control of the aircraft, ensuring that it maintains a level attitude in flight and allowing the pilot to make precise control movements. The vertical fin helps to maintain directional stability, preventing unwanted yawing motions. The balance between the horizontal stabilizer and vertical fin is essential for effective flight dynamics, particularly in a helicopter with the capabilities of the MH-60S. This design allows for improved maneuverability, especially when operating in various conditions, such as in tight spaces or during landing and takeoff procedures. Other configurations, such as dual horizontal stabilizers or canard wings, are not characteristic of the MH-60S and do not contribute to its designed flight characteristics as effectively as the standard horizontal stabilizer and vertical fin arrangement. Similarly, a conventional tail design without fins would lack the necessary attributes for stability and control that are provided by the empennage configuration present on the MH-60S.

## 2. What is the light mixing solution ratio?

- A. 1 part cleaner 4 parts water
- B. 1 part cleaner 9 parts water**
- C. 1 part cleaner 7 parts water
- D. 1 part cleaner 5 parts water

The correct mixing solution ratio for light cleaning with a cleaner is 1 part cleaner to 9 parts water. This specific ratio ensures that the solution is diluted enough to be safe for use on sensitive equipment and surfaces while still maintaining effective cleaning properties. A higher dilution, such as this 1:9 ratio, prevents potential damage that can occur from using too concentrated of a solution, which can be especially important in maintaining the integrity of aircraft surfaces and components. Choosing the right dilution is critical to achieving optimal results without compromising safety or the quality of the equipment being cleaned. This approach balances cleanliness and safety effectively, making it the recommended choice for light cleaning tasks.

**3. What must be included in the system description space for a corrosion MAF?**

- A. Maintenance history**
- B. CCDD: Julian date 28 days from when MAF is written**
- C. Inspection records**
- D. Repair history**

The correct choice emphasizes the importance of tracking the timeline for corrosion maintenance actions through the use of the Corrosion Control and Data Document (CCDD). Specifically, including the Julian date that indicates a 28-day countdown from when the Maintenance Action Form (MAF) is written is critical for ensuring timely follow-up on corrosion inspections and treatments. This systematic approach helps maintain the aircraft's integrity by ensuring that corrosion issues are monitored and addressed within a specified period, enhancing overall safety and reliability. In the context of corrosion management, having the appropriate timeline in place allows maintenance personnel to effectively schedule preventive measures and inspections. This ensures that any corrosion-related concerns are systematically reviewed and acted upon in accordance with established guidelines, thereby preventing potential failures due to neglect or oversight. While maintenance history, inspection records, and repair history are all valuable components in understanding the overall condition and actions taken on the aircraft, the specific requirement for the Julian date reflects a proactive approach to corrosion management that emphasizes timely actions based on written MAF documentation.

**4. Which personnel must be present during the aircraft movement in the hangar?**

- A. At least one pilot**
- B. Only PC and Brake Rider**
- C. PC, Brake Rider, and required safety personnel**
- D. Any two crew members on the aircraft**

During aircraft movement in the hangar, it is essential to ensure safety and control, which is why the presence of the Plane Captain (PC), the Brake Rider, and any required safety personnel is mandatory. The Plane Captain holds responsibility for the overall operation and safety of the aircraft, ensuring that all pre-movement checks have been completed. The Brake Rider is situated in the cockpit, ready to control braking systems and respond to any commands from the Plane Captain. In addition to these roles, designated safety personnel are crucial to prevent accidents and ensure a clear path during the movement of the aircraft. They help manage the movement within the confined space of the hangar, assessing any potential hazards and providing guidance. This combination of personnel enhances safety and operational efficiency during aircraft maneuvering in such critical environments. The other choices do not align with the established protocols for aircraft movement. For example, having only a pilot present does not fulfill the complete safety measures required. Likewise, a mix of crew members lacking specific designations may lead to miscommunication or oversight during the move, which could compromise safety.

**5. What percentage of total lifting force does the tail rotor provide in a hover?**

- A. 1.5%
- B. 2.0%
- C. 2.5%**
- D. 3.0%

The tail rotor of a helicopter plays a critical role in countering the torque produced by the main rotor. During a hover, the main rotor provides the necessary lift to keep the helicopter airborne, while the tail rotor is essential for maintaining directional control and stability. In a typical helicopter, the tail rotor generates a small percentage of the total lifting force, as its primary function is to counteract the main rotor's torque rather than contribute significantly to lift. For most helicopters, including the MH-60S, the tail rotor's contribution to the total lifting force while hovering is approximately 2.5%. This value emphasizes the importance of the tail rotor in creating a balanced flight condition and allowing the pilot to maintain control of the aircraft during hover maneuvers. Understanding the dynamics of how the tail rotor works in conjunction with the main rotor is crucial for any Plane Captain, as it directly influences aircraft handling and safety. Therefore, the correct choice reflects an accurate understanding of the aerodynamic principles at play in helicopter flight.

**6. What is the significance of the Julian date mentioned in the MAF process?**

- A. Indicates inspection frequency
- B. Signals flight readiness
- C. Marks the intended repair timeframe**
- D. Indicates safety compliance

In the context of the Maintenance Action Form (MAF) process, the Julian date plays a crucial role by marking the intended repair timeframe. The Julian date system represents the day of the year in a continuous format, allowing maintenance personnel to track the age of a maintenance action or the timeline for repairs more effectively. This is particularly significant because it provides a standardized reference that can be easily compared across different records and maintenance actions. By using Julian dates, maintenance crews can quickly ascertain when maintenance tasks need to be completed based on the allotted time frame specified for repairs. This aspect ensures that aircraft remain within their operational limits and can help in scheduling inspections or maintenance that is due, contributing to the overall safety and readiness of the aircraft. The other options, while relevant to various aspects of aircraft maintenance, do not specifically relate to the intended repair timeframe in the same direct manner as the Julian date does. Thus, focusing on the intended repair timeframe provides clarity and effective management of maintenance activities.

## **7. What does APU stand for in helicopter operation?**

- A. Auxiliary Power Unit**
- B. Automatic Pilot Unit**
- C. Aerodynamic Performance Unit**
- D. Air Propulsion Unit**

The term APU stands for Auxiliary Power Unit in the context of helicopter operations. An Auxiliary Power Unit serves as a secondary power source that can provide electrical power and pneumatic energy needed for engine start-up and other systems when the main engines are not running. This is particularly important for ground operations, as it allows the helicopter to function efficiently without relying on its main engines, ensuring that essential systems remain operational even when the helicopter is on the ground. Additionally, the APU can help with air conditioning and other support functions, making it a crucial component in maintaining aircraft readiness and efficiency during preflight checks and while on the ground. In contrast, the other options refer to concepts that do not accurately describe the role of an APU in helicopter operations. Automatic Pilot Units relate to flight control systems, while Aerodynamic Performance Units and Air Propulsion Units do not represent standard terms used in the aviation industry for power and energy management. The APU's unique function as a support system distinctly sets it apart from the other choices.

## **8. What color is the beacon that signifies rotor engagement during flight operations?**

- A. Red**
- B. Green**
- C. Amber**
- D. Blue**

The beacon that signifies rotor engagement during flight operations is colored amber. This color is specifically chosen to provide clear visibility to personnel on the ground or in close proximity to the aircraft. An amber beacon typically indicates caution, alerting ground crew and other nearby individuals to the potential dangers associated with the rotor system in motion. In aviation operations, particularly with helicopters such as the MH-60S, proper color coding is critical for maintaining safety during flight operations. The use of amber helps to ensure that everyone understands the status of the aircraft and can take necessary precautions while working around it.

## 9. What is the purpose of a Note in procedures?

- A. To warn against potential hazards
- B. To advise of equipment malfunctions
- C. To highlight an important condition or requirement**
- D. To list mandatory safety rules

The purpose of a Note in procedures is to highlight an important condition or requirement that may help in the understanding or execution of the task at hand. Notes serve as additional information that enhances the clarity of the primary instructions, ensuring that those following the procedures can perform their tasks with a full awareness of crucial details that might not be immediately obvious. This is particularly pertinent in complex procedures where minor details can significantly impact the outcomes or effectiveness of the operations. For instance, a Note might inform the personnel about a specific adjustment that needs to be made or an additional check that should be performed to ensure safety or efficiency. While warnings about potential hazards or mandatory safety rules are crucial (often categorized separately), the primary goal of a Note is to draw attention to essential information that can aid in the successful completion of tasks without being a formal directive like warnings or requirements.

## 10. Why is crew fatigue particularly concerning during flight?

- A. It can lead to complacency and reduced vigilance**
- B. It allows for quicker decision-making
- C. It fosters informal team dynamics
- D. It enhances multitasking capabilities

Crew fatigue is a significant concern during flight because it can lead to complacency and reduced vigilance among crew members. When fatigue sets in, individuals may experience a decline in their cognitive functions, such as attention, reaction time, and problem-solving abilities. This deterioration in performance can result in slower responses to changes in the flight environment, increased chances of missing critical information, and an overall lack of awareness, all of which can compromise safety. In aviation, maintaining a high level of situational awareness is essential for successful operation. Crew members must be fully alert and able to assess and react to dynamic conditions. Fatigue can impair these essential skills, making it harder to execute necessary procedures, respond to emergencies, and maintain effective communication within the crew. This makes addressing crew fatigue a critical aspect of flight safety and operational efficiency.