

# Charlie Formations Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. If the wing is forward of the bearing line, they are described as being what?**
  - A. Neutral**
  - B. Acute**
  - C. Aft**
  - D. Staggered**
- 2. When is an underrun directly directed by flight lead necessary?**
  - A. When in a break formation**
  - B. During an evaluation flight**
  - C. When safety is at risk**
  - D. In stable weather conditions**
- 3. During a Running Rendezvous, what action should wing take regarding the established side?**
  - A. Abandon the side**
  - B. Maintain the side**
  - C. Switch to opposite side**
  - D. Delay the rendezvous**
- 4. What happens to the power control lever (PCL) once set in cruise?**
  - A. It increases automatically**
  - B. It decreases automatically**
  - C. It remains unchanged**
  - D. It must be manually adjusted**
- 5. If a turn is required by the lead after takeoff, what is the maximum angle of bank (AOB) allowed unless directed otherwise?**
  - A. 15°**
  - B. 20°**
  - C. 25°**
  - D. 30°**

- 6. Who typically takes the role of the On Scene Commander if an aircraft external to the flight goes down?**
- A. Wingman**
  - B. Flight lead**
  - C. Ground control**
  - D. Lead navigator**
- 7. What AOB should wing use when coming to the join up phase of the breakup and rendezvous?**
- A. 15-30°**
  - B. 30-45°**
  - C. 45-60°**
  - D. 60-75°**
- 8. Which term refers to the deployment of power corrections during formation flight?**
- A. Energy management**
  - B. Power synchronization**
  - C. Power adjustments**
  - D. Power corrections**
- 9. How can formation flying be characterized based on the communication needed?**
- A. Highly independent**
  - B. Team-oriented**
  - C. Solo-based**
  - D. Casual approach**
- 10. The fuel state for OPS checks will always be rounded down to which of the following?**
- A. 5 pounds**
  - B. 10 pounds**
  - C. 15 pounds**
  - D. 20 pounds**

## **Answers**

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

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## **Explanations**

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**1. If the wing is forward of the bearing line, they are described as being what?**

- A. Neutral**
- B. Acute**
- C. Aft**
- D. Staggered**

When the wing is forward of the bearing line, it is described as being "acute." This terminology stems from the geometric positioning of the wing relative to the bearing line. In aviation and aircraft design, understanding the placement and angle of the wing in relation to the bearing line is critical for analyzing performance characteristics such as lift, drag, and stability. An acute position indicates that the wing is angled forward, which can influence the aerodynamic behavior of the aircraft. This configuration often results in enhanced maneuverability and responsiveness, especially at varying speeds. Other options do not appropriately describe the wing's position relative to the bearing line. Being neutral would imply that the wing is aligned perfectly with the bearing line, while being aft would suggest that the wing is positioned behind the bearing line. Staggered refers to a different configuration involving multiple wings or surfaces rather than a single wing's relation to the bearing line. Therefore, acute is the correct term to use in this context, reflecting a forward positioning of the wing.

**2. When is an underrun directly directed by flight lead necessary?**

- A. When in a break formation**
- B. During an evaluation flight**
- C. When safety is at risk**
- D. In stable weather conditions**

An underrun directly directed by flight lead is necessary when safety is at risk because it serves as a critical maneuver to prevent collisions or to maintain safe spacing between aircraft. This situation requires immediate action, and the flight lead has the authority and responsibility to ensure the safety of all aircraft in the formation. In a scenario where an aircraft is too close to another, an underrun directs the pilot to move below and away from the lead aircraft, thereby increasing the distance and reducing the risk of an incident. In contrast, performing an underrun in less critical circumstances, such as during a break formation, evaluation flight, or stable weather conditions, might not be warranted. These situations do not necessarily demand immediate safety interventions, which is why the need for an underrun in those contexts would be less critical. The emphasis on safety in aviation operations makes the correct answer the most applicable in deciding when an underrun is warranted.

**3. During a Running Rendezvous, what action should wing take regarding the established side?**

- A. Abandon the side**
- B. Maintain the side**
- C. Switch to opposite side**
- D. Delay the rendezvous**

During a Running Rendezvous, maintaining the established side is critical for a successful formation and effective communication between the aircraft involved. This maneuver requires precision and coordination, whereby the wingman must remain consistently positioned to facilitate optimal alignment with the lead aircraft. By staying on the established side, the wingman ensures that they can easily monitor the lead's actions and intentions, fostering a safe and effective integration into the formation. Choosing to maintain the side also prevents unnecessary complications that could arise from switching positions or abandoning the established side. Maintaining orientation relative to the lead allows for smooth transitions and reduces the risk of miscommunication or potential collisions, which are paramount in tightly controlled formations. Hence, the decision to maintain the side aligns closely with the fundamental principles of formation flying, enhancing situational awareness and overall cohesiveness within the flight.

**4. What happens to the power control lever (PCL) once set in cruise?**

- A. It increases automatically**
- B. It decreases automatically**
- C. It remains unchanged**
- D. It must be manually adjusted**

When the power control lever (PCL) is set in cruise, it is designed to maintain a stable engine performance appropriate for cruising conditions. Once set, the PCL will hold its position unless manually adjusted. This allows for a consistent power output that is necessary for sustained flight at cruising altitude, reducing the need for constant pilot adjustments and optimizing performance in a fuel-efficient manner. While there may be scenarios requiring adjustments due to changing flight conditions or power requirements, the primary function of the PCL in cruise is to remain unchanged, ensuring smooth and efficient operation. This is essential for flight stability and minimizes pilot workload during cruise flight.

**5. If a turn is required by the lead after takeoff, what is the maximum angle of bank (AOB) allowed unless directed otherwise?**

- A. 15°
- B. 20°
- C. 25°
- D. 30°**

The maximum angle of bank allowed after takeoff when a turn is required by the lead is 30 degrees unless otherwise directed. This standard is put in place to ensure the safety and stability of the aircraft during a critical phase of flight, particularly right after takeoff when the aircraft is still climbing and may not be at its best performance for turns. A bank angle of 30 degrees strikes a balance between effective maneuverability and maintaining control of the aircraft, allowing the crew to navigate safely while still adhering to safety protocols that account for potential variations in aircraft performance and weather conditions. Adhering to this limit helps to prevent excessive load factors and ensures sufficient climb performance, which is especially vital in the early stages of flight.

**6. Who typically takes the role of the On Scene Commander if an aircraft external to the flight goes down?**

- A. Wingman
- B. Flight lead**
- C. Ground control
- D. Lead navigator

The On Scene Commander in situations where an aircraft external to the flight goes down is typically the flight lead. The flight lead is responsible for the overall command of the aircraft and the safety of the flight crew. This individual has the authority to make critical decisions regarding the response to emergencies and the coordination of resources. In such incidents, the flight lead is usually best positioned to assess the situation, determine the necessary actions, and lead the response efforts. This includes coordinating with other units, directing navigation towards the incident, and ensuring communication between involved parties. Their leadership role entails a deep understanding of both the operational environment and the tactical considerations, making them a natural choice for the On Scene Commander in these high-stress scenarios. Other options like the wingman, ground control, or lead navigator serve vital roles in the flight context but are not typically in command during an incident involving an external aircraft downed. The wingman supports the flight lead, ground control oversees aircraft operations from the ground, and the lead navigator focuses on ensuring the flight maintains its intended course. Each has important duties, but the flight lead's responsibilities best suit the needs of managing the scene following an external incident.

**7. What AOB should wing use when coming to the join up phase of the breakup and rendezvous?**

- A. 15-30°
- B. 30-45°**
- C. 45-60°
- D. 60-75°

During the join-up phase of a breakup and rendezvous, the appropriate angle of bank (AOB) to use is between 30 and 45 degrees. This range is significant as it provides a balance between maintaining sufficient lift and ensuring the formation's ability to maneuver effectively. Utilizing an AOB within this range allows the lead aircraft to maintain a good visual reference of the rest of the formation while ensuring that the necessary performance characteristics are met for safe and efficient maneuvering. A bank angle that is too shallow may not effectively position the aircraft for the join-up, whereas a steeper angle could result in excessive load factors and loss of control if not managed properly. Thus, employing a bank angle of 30-45 degrees during this critical phase ensures that pilots can achieve an optimal mix of stability and agility, allowing for a smooth transition back into formation.

**8. Which term refers to the deployment of power corrections during formation flight?**

- A. Energy management
- B. Power synchronization
- C. Power adjustments
- D. Power corrections**

The term that refers to the deployment of power corrections during formation flight is indeed "Power corrections." This term specifically embodies the adjustments and modifications made to power settings by pilots to maintain optimal flight conditions while flying in formation with other aircraft. In the context of formation flying, managing the power output effectively is crucial for synchronized movements and maintaining the desired spatial positioning between aircraft. This term highlights the focus on correcting any discrepancies or variations in power that may arise due to changes in aircraft dynamics or external conditions, allowing pilots to keep the formation tight and coordinated. Energy management, on the other hand, generally refers to the broader concept of using available energy efficiently throughout a flight but does not specifically focus on corrective actions related strictly to power. Similarly, while power synchronization and power adjustments may sound relevant, they do not encapsulate the specific corrective nature implied by "power corrections." This distinction makes "Power corrections" the most appropriate choice for this question.

**9. How can formation flying be characterized based on the communication needed?**

- A. Highly independent**
- B. Team-oriented**
- C. Solo-based**
- D. Casual approach**

Formation flying is characterized primarily as team-oriented because it requires precise coordination and communication among the pilots involved. In formation flying, aircraft must maintain specific relative positions to each other, which necessitates ongoing communication to ensure that each pilot is aware of others' movements, intentions, and any necessary changes in formation. This collective effort helps enhance safety, efficiency, and effectiveness during flight operations. Each pilot must work together as a cohesive unit, relying on real-time information to respond to dynamic situations. This contrasts with independent or solo flying, where pilots operate without the need for close coordination with others. The importance of teamwork in formation flying facilitates not only better tactical maneuvering but also strengthens mutual trust among the pilots participating in the operation.

**10. The fuel state for OPS checks will always be rounded down to which of the following?**

- A. 5 pounds**
- B. 10 pounds**
- C. 15 pounds**
- D. 20 pounds**

When conducting OPS checks, the practice is to round down the fuel state for accuracy and operational safety. Rounding down to 10 pounds ensures a conservative estimate that accounts for fuel consumption and avoids overestimation of available fuel, which could lead to critical fuel shortages during operations. This standard is derived from safety protocols and practical operational considerations in aviation. Choosing a smaller rounding figure, like 5 pounds, might be seen as too precise, introducing unnecessary complexity and potential discrepancies in fuel calculations. Similarly, larger rounding figures such as 15 or 20 pounds would not adhere to the same level of conservative safety margin. Thus, rounding down to 10 pounds strikes a balance by providing a reliable lower estimate while also simplifying calculations and maintaining operational safety.