

# XPW Transition Checkride Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

SAMPLE

- 1. When flying above 32,500 feet, what is the maximum DC load capacity with one generator operating?**
  - A. 400 Amps**
  - B. 280 Amps**
  - C. 350 Amps**
  - D. 600 Amps**
- 2. Why is Ref 0 calculation different with split markers?**
  - A. It considers only single engine performance**
  - B. It accounts for two engine acceleration assumptions**
  - C. It is based solely on runway length**
  - D. It adjusts for weather conditions**
- 3. What should be done if the hydraulic gauge indicates pressure above 1650 PSI?**
  - A. Ignore the reading**
  - B. Check the hydraulic fluid levels**
  - C. Prepare for system failure**
  - D. Monitor for pressure relief valve activation**
- 4. What happens if the pressure in the hydraulic accumulator is too low?**
  - A. The aircraft can become uncontrollable**
  - B. The brakes may not function properly**
  - C. The landing gear cannot be deployed**
  - D. The flight controls will become sluggish**
- 5. What is the maximum number of oxygen blowout discs that can be missing?**
  - A. 1**
  - B. None**
  - C. 2**
  - D. 3**

- 6. What would cause the hydraulic system to lose pressure?**
- A. A full reservoir**
  - B. A leak in the system**
  - C. Engine fire suppression**
  - D. Fuel contamination**
- 7. What fuel limitation prohibits takeoff?**
- A. Takeoff is prohibited with partial wing fuel and fuel in the fuselage tanks**
  - B. Takeoff is prohibited with full wing fuel only**
  - C. Takeoff is prohibited if fuselage fuel is greater than wing fuel**
  - D. Takeoff is permitted with fuel in the engine tanks**
- 8. What are the amp and voltage limits for a battery start?**
- A. -24 VDC minimum, 200 A max load**
  - B. -20 VDC minimum, 100 A max load**
  - C. -22 VDC minimum, 150 A max load before starting other engine**
  - D. -18 VDC minimum, 120 A max load**
- 9. At what point is Rotation Speed (Vrot) reached?**
- A. When the aircraft reaches maximum altitude**
  - B. During the transition from ground run to lift-off attitude**
  - C. At the initial takeoff roll**
  - D. At maximum landing speed**
- 10. What is the maximum speed limit in Class D airspace?**
- A. 150 knots**
  - B. 200 knots**
  - C. 250 knots**
  - D. 300 knots**

## **Answers**

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

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## **Explanations**

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**1. When flying above 32,500 feet, what is the maximum DC load capacity with one generator operating?**

- A. 400 Amps**
- B. 280 Amps**
- C. 350 Amps**
- D. 600 Amps**

The maximum DC load capacity with one generator operating above 32,500 feet is established by the aircraft's electrical system design, which limits the current that can be supplied by a single generator to ensure safe operation and reliability. At altitudes above 32,500 feet, the performance characteristics of the generator may vary due to environmental factors, and the systems must be capable of functioning efficiently under those conditions. In this case, the allowable load is set at 280 Amps, reflecting the operational limits of the generator while maintaining adequate safety and functionality for the aircraft systems. This prevents overloading of the generator, which could lead to failure of the electrical systems during critical flight operations. While the other options represent various amperage ratings, they exceed the designated limit of the electrical design for one generator at this altitude, indicating that they do not conform to safety standards and operational guidelines.

**2. Why is Ref 0 calculation different with split markers?**

- A. It considers only single engine performance**
- B. It accounts for two engine acceleration assumptions**
- C. It is based solely on runway length**
- D. It adjusts for weather conditions**

The calculation of Ref 0 with split markers is significant because it is designed to account for more complex performance scenarios that involve two engines. When calculating performance metrics, particularly during takeoff, it's important to consider how each engine contributes to acceleration and overall aircraft performance. With split markers, the Ref 0 calculation adjusts for the acceleration characteristics of the aircraft when both engines are producing thrust, ensuring more accurate performance data for safe and efficient operations. This approach reflects operational realities where both engines are engaged and helps pilots and flight planners to better understand how the aircraft will perform under different conditions. It emphasizes the importance of dual-engine performance parameters over those that would only consider a single-engine scenario, which could potentially lead to conservative estimates and an underestimation of aircraft capability in certain situations. The other options do not apply to this calculation context, as they focus on either other performance assumptions or conditions that are not directly related to how the engines operate together during the calculation of Ref 0.

**3. What should be done if the hydraulic gauge indicates pressure above 1650 PSI?**

- A. Ignore the reading**
- B. Check the hydraulic fluid levels**
- C. Prepare for system failure**
- D. Monitor for pressure relief valve activation**

When the hydraulic gauge indicates pressure above 1650 PSI, monitoring for pressure relief valve activation is critical because hydraulic systems are designed to operate within specific pressure limits for safety and functionality. If the pressure exceeds the maximum threshold, it can lead to system malfunctions or even catastrophic failures. The pressure relief valve serves as a safeguard in this scenario. It is designed to open at predetermined pressures to prevent excess pressure from damaging components of the hydraulic system. Therefore, observing whether the valve is functioning correctly can help indicate whether the system is in a safe operating range. This proactive step can prevent further escalation of potential issues, ensuring that any abnormal pressure readings are addressed promptly. Keeping an eye on the system's response allows for better risk management and maintains operational integrity. While checking hydraulic fluid levels and preparing for system failure are important in other contexts, the immediate action when faced with an overpressure indication should focus on monitoring the pressure relief system to verify whether it is acting to alleviate the pressure. Ignoring the reading can lead to severe consequences, and while it is important to ensure adequate hydraulic fluid levels, it is not the primary concern when immediate readings indicate a critical issue.

**4. What happens if the pressure in the hydraulic accumulator is too low?**

- A. The aircraft can become uncontrollable**
- B. The brakes may not function properly**
- C. The landing gear cannot be deployed**
- D. The flight controls will become sluggish**

If the pressure in the hydraulic accumulator is too low, it directly affects the functionality of the aircraft's braking system. The hydraulic accumulator stores hydraulic fluid under pressure, which is essential for activating the brakes effectively. Low pressure may lead to insufficient hydraulic force, resulting in inadequate braking action when needed. In a hydraulic braking system, a compromised accumulator can mean that the required pressure to apply sufficient braking force may not be available, leading to longer stopping distances or even a failure to stop in critical situations. Hence, maintaining proper pressure in the hydraulic accumulator is crucial for ensuring that the brakes function effectively and safely.

**5. What is the maximum number of oxygen blowout discs that can be missing?**

- A. 1
- B. None**
- C. 2
- D. 3

The correct response indicates that no oxygen blowout discs can be missing. This is important because oxygen blowout discs are critical safety components designed to prevent excessive pressure buildup in systems containing oxygen. If one or more of these discs are absent, there is an increased risk of failure or hazardous situations arising due to uncontrolled pressure release. Each disc has a designated role in ensuring that the system can safely vent excess pressure before it reaches a level that could lead to catastrophic failure. Therefore, having none missing is essential for maintaining the integrity and safety of the oxygen system. Ensuring that all blowout discs are present and functioning properly is a key aspect of safety protocols in aviation and other applications where oxygen is used under pressure.

**6. What would cause the hydraulic system to lose pressure?**

- A. A full reservoir
- B. A leak in the system**
- C. Engine fire suppression
- D. Fuel contamination

The hydraulic system losing pressure is most commonly caused by a leak within that system. Hydraulics operate on the principle of incompressible fluid under pressure, and if there is a breach in the system—such as a cracked line, a damaged seal, or a loose connection—the pressurized fluid will escape. This escape leads to a drop in pressure, which can compromise the functionality of critical components that rely on hydraulic power, such as flight control surfaces or landing gear. Other options do not lead to a loss of hydraulic pressure directly. A full reservoir, for example, ensures that there is enough fluid to maintain pressure rather than diminish it. An engine fire suppression system, while it may have a connection to hydraulic components, does not itself cause a pressure loss in the hydraulic fluid. Fuel contamination affects fuel systems and combustion, not hydraulic pressure. Thus, a leak is the definitive cause of pressure loss in a hydraulic system.

## 7. What fuel limitation prohibits takeoff?

- A. Takeoff is prohibited with partial wing fuel and fuel in the fuselage tanks**
- B. Takeoff is prohibited with full wing fuel only**
- C. Takeoff is prohibited if fuselage fuel is greater than wing fuel**
- D. Takeoff is permitted with fuel in the engine tanks**

The correct answer indicates that takeoff is prohibited when there is partial wing fuel combined with fuel in the fuselage tanks. This limitation is crucial for ensuring the aircraft's fuel balance and system integrity during takeoff. If the wings are not adequately fueled, it can lead to an imbalance that affects the aircraft's handling characteristics and stability during critical phases of flight like takeoff. The fuselage fuel tanks are typically designed to support certain operational scenarios but should not be carrying a greater volume than what's safely manageable in the wings during takeoff. When there is fuel in both the fuselage and partial fuel in the wings, it may not provide the adequate center of gravity (CG) required for a safe takeoff. Ensuring proper weight distribution and fuel management is vital to maintain control and performance of the aircraft during takeoff. This understanding underscores the significance of adhering to aircraft limitations, as it ensures safety and compliance with operational standards.

## 8. What are the amp and voltage limits for a battery start?

- A. -24 VDC minimum, 200 A max load**
- B. -20 VDC minimum, 100 A max load**
- C. -22 VDC minimum, 150 A max load before starting other engine**
- D. -18 VDC minimum, 120 A max load**

The specifications for a battery start typically set the minimum voltage and maximum load in terms of amperage to ensure the engine starts efficiently without overloading the battery or causing damage to the electrical system. The correct answer indicates a minimum voltage of -22 VDC, which is generally necessary to provide sufficient power for the systems to function properly during the starting process. The maximum load of 150 A before starting the other engine reflects a safe threshold that allows adequate starting power while preventing excessive drain on the battery. This helps to maintain battery health and ensures reliability during starting. Exceeding this amperage can cause excessive heat and damage to the battery or starter system. Knowing these limits is essential for aircraft mechanics and pilots to ensure a successful and safe engine start, especially in multiple-engine configurations where load management is critical. Understanding these parameters also helps in troubleshooting starting issues and maintaining optimal performance of the engine's electrical system.

**9. At what point is Rotation Speed (Vrot) reached?**

- A. When the aircraft reaches maximum altitude
- B. During the transition from ground run to lift-off attitude**
- C. At the initial takeoff roll
- D. At maximum landing speed

Rotation Speed (Vrot) is defined as the speed at which the pilot initiates the aircraft's rotation to achieve liftoff from the runway. This typically occurs during the transition phase from the ground run to the lift-off attitude, indicating that the aircraft has reached a sufficient speed that allows the pilot to safely pull back on the control yoke or stick in order to raise the nose of the aircraft off the ground. This action ensures that the wings generate enough lift to overcome the weight of the aircraft, allowing for a safe and successful takeoff. Vrot is critical for ensuring that the aircraft can safely depart the ground without risking a stall or other aerodynamic issues. Therefore, the moment when a pilot rotates the aircraft, which is precisely when Vrot is reached, signifies that the aircraft is ready for takeoff. In contrast, the other options do not accurately describe the context or timing of Vrot. Maximum altitude refers to the highest point an aircraft can reach, while the initial takeoff roll is the period before the aircraft has acquired enough speed to rotate. Lastly, maximum landing speed is a measure relevant to landing scenarios rather than takeoff, making it unrelated to the concept of rotation speed during takeoff.

**10. What is the maximum speed limit in Class D airspace?**

- A. 150 knots
- B. 200 knots**
- C. 250 knots
- D. 300 knots

The maximum speed limit in Class D airspace is indeed 200 knots. This limit is established to ensure safe operations within the controlled airspace while allowing for efficient traffic flow. Class D airspace typically surrounds airports with air traffic control towers and is designed for aircraft arriving and departing from those airports. The 200 knots speed limit helps maintain orderly traffic management and minimizes the risk of wake turbulence or other conflicts between aircraft. Pilots operating in Class D airspace must be aware of their speeds, as exceeding this limit could lead to operational challenges and potential safety issues. Within this controlled environment, maintaining appropriate speed allows for better communication and coordination with Air Traffic Control, ensuring safety for all aircraft in the vicinity of the airport.