

AAAE Airport Certified Employee (ACE) Operations Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What is the wingspan range for ADG Group II?**
 - A. Less than 49 feet**
 - B. 49 to less than 79 feet**
 - C. 79 to less than 118 feet**
 - D. 118 to less than 171 feet**
- 2. How is air traffic management related to airport operations?**
 - A. It involves managing airport staff and security**
 - B. It refers to the scheduling of airlines at the airport**
 - C. It involves the strategic control of aircraft movement in airspace and on the ground**
 - D. It focuses on maintenance of airport infrastructure**
- 3. A lightweight aircraft with a 150' wingspan fits into which category?**
 - A. 200' or more**
 - B. 90' - less than 126'**
 - C. 126' - less than 159'**
 - D. 159' - less than 200'**
- 4. What purpose do airport facilities serve?**
 - A. They are solely for cargo operations**
 - B. They accommodate passenger and cargo operations**
 - C. They provide space for marketing offices**
 - D. They only serve as waiting areas**
- 5. Personnel training records are required to be maintained for a minimum of how many CCM?**
 - A. 12 CCM**
 - B. 24 CCM**
 - C. 36 CCM**
 - D. 48 CCM**

- 6. What is maintained by Class I Airports according to operational standards?**
- A. Accident records for 12 CCM**
 - B. No record maintenance**
 - C. Only records for scheduled large operations**
 - D. Records for scheduled and unscheduled operations**
- 7. What is the objective of pavement grooving?**
- A. Reduce costs**
 - B. Enhance aesthetics**
 - C. Minimize loss of friction**
 - D. Improve durability**
- 8. Class B airspace is generally found around which type of locations?**
- A. Rural areas**
 - B. Small airports**
 - C. Nation's busiest airports**
 - D. Coastal regions**
- 9. What is the range of runway widths for standard classification?**
- A. 40 - 100 Feet**
 - B. 60 - 200 Feet**
 - C. 100 - 250 Feet**
 - D. 200 - 300 Feet**
- 10. What does "PAPI" stand for in aviation?**
- A. Precision Approach Path Indicator**
 - B. Pilot Automated Position Indicator**
 - C. Primary Airfield Protection Indicator**
 - D. Procedure for Alternative Pilot Interface**

Answers

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

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Explanations

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1. What is the wingspan range for ADG Group II?

- A. Less than 49 feet**
- B. 49 to less than 79 feet**
- C. 79 to less than 118 feet**
- D. 118 to less than 171 feet**

The wingspan range for Aircraft Design Group (ADG) II is indeed between 49 to less than 79 feet. This classification helps airports and regulatory bodies determine suitable dimensions for taxiways, runways, and other operational areas to accommodate specific types of aircraft. ADG classifications are essential for managing airport operations effectively, ensuring that the design and layout of the facilities can support the types of aircraft regularly using the airport. By clearly defining size ranges, airport planners can create appropriate infrastructures, such as gates and taxiing systems, that enhance safety and efficiency. In this context, the correct choice reflects the established standards set by the FAA and other aviation authorities to accommodate medium-sized aircraft typically classified within ADG II, which may include various regional jets and larger turboprops. This practical understanding is crucial for airport operations personnel to ensure compliance and safety standards.

2. How is air traffic management related to airport operations?

- A. It involves managing airport staff and security**
- B. It refers to the scheduling of airlines at the airport**
- C. It involves the strategic control of aircraft movement in airspace and on the ground**
- D. It focuses on maintenance of airport infrastructure**

Air traffic management is fundamentally about the strategic control of aircraft movement both in the airspace and on the ground. This encompasses the coordination of air traffic to ensure safe and efficient operations. It involves various elements, including the management of traffic flow, airspace structure, and the coordination of arrivals and departures at airports. By effectively managing aircraft movements, air traffic management ensures that airplanes safely navigate crowded airspaces and land or take off without delays that could compromise safety or efficiency. This interface is crucial for maintaining order and maximizing the use of airport resources, thereby enhancing overall airport operations. The other options, while related to certain aspects of airport functionality, do not capture the primary focus of air traffic management. Managing airport staff and security is an operational aspect but does not pertain to air traffic control itself. Scheduling of airlines, while important for operations, falls under a different category as it deals with flight planning rather than air traffic management. Maintenance of airport infrastructure, although essential for airport operations, is separate from the responsibilities associated with managing air traffic.

3. A lightweight aircraft with a 150' wingspan fits into which category?

- A. 200' or more**
- B. 90' - less than 126'**
- C. 126' - less than 159'**
- D. 159' - less than 200'**

A lightweight aircraft with a 150' wingspan fits into the category of 126' to less than 159' because this range specifically includes wingspans that are greater than 126' but less than 159'. Since 150' falls within this range, it is classified under this category. Knowing the categories for wingspans is essential for airport operations, as it helps determine the appropriate space required for aircraft movements and parking, as well as compliance with regulations and safe operations on the airfield. This categorization is also important for airport planning and design, as different aircraft sizes have different operational needs. The other ranges either do not include 150' or relate to spans that do not apply to the specified aircraft.

4. What purpose do airport facilities serve?

- A. They are solely for cargo operations**
- B. They accommodate passenger and cargo operations**
- C. They provide space for marketing offices**
- D. They only serve as waiting areas**

The choice that indicates airport facilities accommodate both passenger and cargo operations is correct because airports are complex environments designed to handle a variety of functions crucial for air travel and logistics. Airports are not just transit points for passengers; they also play a significant role in the transport of goods, making cargo operations a fundamental part of airport facilities. This dual purpose enables airports to facilitate economic activity by connecting people and businesses, enabling commerce through the efficient transfer of freight and the movement of travelers. In addition to passenger terminals and waiting areas, airports typically include various infrastructures such as runways, taxiways, cargo terminals, and customs facilities that support both passengers and freight operations. The integration of these functions is vital for the overall effectiveness and efficiency of airport operations. Marketing offices may occupy space within the airport, but they are not the primary purpose of airport facilities. Similarly, while waiting areas are essential for passenger comfort, they represent just a small portion of the wide-ranging services and operations that airports provide. Thus, the focus on both passenger and cargo operations underscores the multifaceted role of airport facilities.

5. Personnel training records are required to be maintained for a minimum of how many CCM?

- A. 12 CCM**
- B. 24 CCM**
- C. 36 CCM**
- D. 48 CCM**

The requirement to maintain personnel training records for a minimum of 24 consecutive calendar months (CCM) is crucial for compliance and operational standards in airport management. This duration allows for a comprehensive review of an employee's training and qualifications, ensuring they meet the necessary safety and regulatory standards mandated by authorities such as the Federal Aviation Administration (FAA) and Transportation Security Administration (TSA). Retaining records for 24 months helps airports document ongoing training efforts, enabling them to track employee development and proficiency in various operational roles. This period provides enough time to address any gaps in training and to be proactive in re-certifying employees as necessary. It also aligns with best practices for human resource management within the aviation industry, fostering a culture of continuous improvement and accountability. Given these factors, the choice of maintaining records for 24 consecutive calendar months supports effective oversight, operational integrity, and compliance with federal regulations.

6. What is maintained by Class I Airports according to operational standards?

- A. Accident records for 12 CCM**
- B. No record maintenance**
- C. Only records for scheduled large operations**
- D. Records for scheduled and unscheduled operations**

Class I Airports are required to maintain operational records that encompass both scheduled and unscheduled operations. This practice is crucial for ensuring compliance with safety management systems, regulatory requirements, and for providing accountability in airport operations. By documenting all types of operations, including unexpected events, airports can analyze performance, enhance safety measures, and improve overall service quality. Maintaining records for both scheduled and unscheduled operations allows airports to have a complete operational overview. This ensures that any anomalies or trends can be identified and addressed promptly, contributing to more effective airport management and operational continuity. In contrast, maintaining records for only one type of operation or having no record maintenance at all would not provide the comprehensive insight needed for effective oversight and operational safety.

7. What is the objective of pavement grooving?

- A. Reduce costs
- B. Enhance aesthetics
- C. Minimize loss of friction**
- D. Improve durability

The objective of pavement grooving is primarily to minimize loss of friction. When grooves are cut into the pavement surface, they help channel water away from the tire-pavement interface, which improves traction. This is particularly important in wet conditions, as it reduces the likelihood of hydroplaning and enhances vehicle control. By improving friction between the tires and the pavement, grooving contributes positively to vehicle safety and operational efficiency on runways and taxiways. While enhancing aesthetics and improving durability are also considerations in pavement design and maintenance, they do not directly relate to the primary function of grooving. Cost reduction is an important aspect of any infrastructure project, but the main focus of pavement grooving is specifically on enhancing surface performance and safety through improved friction.

8. Class B airspace is generally found around which type of locations?

- A. Rural areas
- B. Small airports
- C. Nation's busiest airports**
- D. Coastal regions

Class B airspace is specifically designed to manage air traffic around the nation's busiest airports. This type of airspace typically extends from the surface up to a designated altitude and surrounds major airports where high volumes of aircraft operations can occur. By establishing Class B airspace, air traffic control can better organize and separate the traffic from commercial and general aviation operations in and around these busy airports. The design and implementation of Class B airspace reflect an effort to enhance safety and efficiency in areas where air traffic density is greatest, facilitating the arrival and departure of numerous flights that may include large commercial airliners. Hence, it is strategically placed around major urban hubs to manage the high number of takeoffs and landings effectively. In contrast, the other options refer to locations where Class B airspace is typically not established. For example, rural areas and small airports generally have less air traffic, making Class B airspace unnecessary. Coastal regions can have various classes of airspace, but they do not inherently necessitate or commonly feature Class B airspace unless they are adjacent to busy metropolitan areas.

9. What is the range of runway widths for standard classification?

- A. 40 - 100 Feet**
- B. 60 - 200 Feet**
- C. 100 - 250 Feet**
- D. 200 - 300 Feet**

The range of runway widths for standard classification is indeed 60 - 200 feet. This range is defined by aviation regulations and design standards to ensure safe operations of a variety of aircraft sizes and types. Runway widths are critical for accommodating landing and takeoff requirements, as well as providing sufficient safety margins for aircraft during operations. Runways that fall within this width classification can effectively support most commercial and general aviation aircraft, ensuring that they have an appropriate surface for stable operations during various weather conditions. This standard is aimed at balancing safety and operational efficiency. Wider runways tend to be found in specialized applications, such as those used for larger aircraft or specific operational needs, but for general airport use, the range of 60 - 200 feet is the accepted norm, aligning with safety and regulatory guidelines for airport design and operations.

10. What does "PAPI" stand for in aviation?

- A. Precision Approach Path Indicator**
- B. Pilot Automated Position Indicator**
- C. Primary Airfield Protection Indicator**
- D. Procedure for Alternative Pilot Interface**

"PAPI" stands for Precision Approach Path Indicator. This system is crucial in aviation as it provides visual guidance to pilots on the correct glide path during their approach to landing. PAPI consists of a series of lights arranged in a specific configuration, typically showing a combination of red and white lights. When the lights are correctly aligned, it indicates that the pilot is on the proper descent path, enhancing safety during the landing phase. This technology is particularly beneficial in reducing the likelihood of approach errors, especially in challenging weather conditions or at airports with limited visibility. The other options presented do not correspond to established aviation terminology or procedures, reinforcing that the correct answer is the one related directly to the visual descent guidance system.