

# EASW Qualification Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. Which of the following is a benefit of understanding energy efficiency principles?**
  - A. Reduced energy costs**
  - B. Increased energy consumption**
  - C. Slower building processes**
  - D. Higher dependence on fossil fuels**
- 2. Which primary flight control is responsible for controlling tilt or roll?**
  - A. Ailerons**
  - B. Rudder**
  - C. Elevators**
  - D. Stabilators**
- 3. What is a primary function of a microgrid?**
  - A. To maximize fossil fuel use**
  - B. To provide localized energy management**
  - C. To eliminate electricity costs**
  - D. To reduce energy benchmarking**
- 4. Why is it important for consumers to understand energy efficiency ratings?**
  - A. To buy the cheapest products available**
  - B. To make informed purchasing decisions regarding energy use**
  - C. To choose products based solely on manufacturer reputation**
  - D. To evaluate only product warranties**
- 5. What does the principle of energy hierarchy prioritize?**
  - A. Maximizing energy consumption**
  - B. Prioritizing energy efficiency improvements**
  - C. Utilizing fossil fuels first**
  - D. Developing new energy technologies**

- 6. What is meant by energy resilience?**
- A. The ability to reduce electricity consumption**
  - B. The ability to adapt to and recover from energy disruptions**
  - C. The capacity to increase energy efficiency**
  - D. The method of producing renewable energy**
- 7. What aspect do renewable portfolio standards primarily influence?**
- A. Household energy efficiency**
  - B. Market prices of traditional energy**
  - C. Utility energy sourcing from renewable resources**
  - D. Consumer energy consumption behavior**
- 8. When did the Battle of Midway take place?**
- A. 1-3 June 1942**
  - B. 3-5 June 1942**
  - C. 7-9 June 1942**
  - D. 10-12 June 1942**
- 9. What type of fracture is characterized by the bone protruding through the skin?**
- A. Closed/simple**
  - B. Open/compound**
  - C. Greenstick**
  - D. Stress**
- 10. What supports the plane's weight when it is on the ground?**
- A. The main landing gear**
  - B. The flight spoilers**
  - C. The leading edge slats**
  - D. The trim tabs**

## **Answers**

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

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## **Explanations**

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**1. Which of the following is a benefit of understanding energy efficiency principles?**

- A. Reduced energy costs**
- B. Increased energy consumption**
- C. Slower building processes**
- D. Higher dependence on fossil fuels**

Understanding energy efficiency principles leads to reduced energy costs, which is a substantial benefit for individuals and organizations alike. By implementing energy-efficient practices, such as using energy-efficient appliances, optimizing heating, ventilation, air conditioning systems, and enhancing building insulation, consumers can significantly lower their utility bills. Energy efficiency helps in minimizing wastefulness and encourages smarter use of energy resources, which directly translates into savings. This understanding empowers individuals to make informed choices about their energy consumption, leading to lower expenditures and reduced demand for energy overall. In contrast, increased energy consumption, slower building processes, and higher dependence on fossil fuels do not align with the principles of energy efficiency. Instead, these would typically lead to higher costs, longer project timelines, and negative environmental impacts. By focusing on energy efficiency, one not only benefits financially but also contributes to a more sustainable future.

**2. Which primary flight control is responsible for controlling tilt or roll?**

- A. Ailerons**
- B. Rudder**
- C. Elevators**
- D. Stabilators**

The primary flight control that is responsible for controlling tilt or roll is the ailerons. Ailerons are located on the wings of an aircraft and function by altering the lift generated by each wing. When one aileron is deflected upward, it reduces the lift on that wing, causing it to drop, while the opposite aileron is deflected downward, increasing the lift on that wing and causing it to rise. This differential movement creates a rolling motion about the aircraft's longitudinal axis, allowing the pilot to control the tilt or roll of the aircraft effectively. In contrast, the rudder is primarily used for controlling yaw, which is the side-to-side motion of the aircraft. Elevators are responsible for controlling pitch, or the up-and-down attitude of the aircraft. Stabilators, which are a type of all-moving horizontal tail surface, also primarily affect pitch but can influence the overall stability and control of the aircraft rather than specifically facilitating roll. Therefore, the correct answer highlights ailerons as the essential controls for managing roll.

### 3. What is a primary function of a microgrid?

- A. To maximize fossil fuel use
- B. To provide localized energy management**
- C. To eliminate electricity costs
- D. To reduce energy benchmarking

A primary function of a microgrid is to provide localized energy management. Microgrids are small-scale energy systems that can operate independently or in conjunction with the larger electrical grid. They allow for the integration of various energy sources, including renewable energy, and enable efficient management of electricity use on-site. This localized approach helps optimize energy distribution, enhances reliability, and can lead to improved energy efficiency within a specific community or facility. The capability of a microgrid to manage energy on a local level also enhances resilience, allowing the system to maintain power supply during outages from the main grid. By facilitating the use of local resources and enabling smart energy use, microgrids significantly contribute to more sustainable energy practices and can shift the energy management paradigm away from relying solely on larger, often less flexible, grid systems.

### 4. Why is it important for consumers to understand energy efficiency ratings?

- A. To buy the cheapest products available
- B. To make informed purchasing decisions regarding energy use**
- C. To choose products based solely on manufacturer reputation
- D. To evaluate only product warranties

Understanding energy efficiency ratings is crucial for consumers because it equips them with the knowledge needed to make informed purchasing decisions regarding energy use. Energy efficiency ratings provide insights into how much energy appliances or products consume compared to similar options. This awareness can lead to significant cost savings on electricity bills over time and can also help consumers make choices that are better for the environment by reducing overall energy consumption and contributing to lower greenhouse gas emissions. When consumers prioritize energy efficiency, they are better positioned to select products that not only save them money in the long run but also align with sustainability goals. This understanding goes beyond just seeking lower upfront costs or relying on manufacturer reputation; it emphasizes the long-term benefits and impacts of energy use. Moreover, by focusing on energy efficiency, consumers can play an active role in promoting energy conservation and ensuring they buy products that maximize their value.

## 5. What does the principle of energy hierarchy prioritize?

- A. Maximizing energy consumption
- B. Prioritizing energy efficiency improvements**
- C. Utilizing fossil fuels first
- D. Developing new energy technologies

The principle of energy hierarchy focuses on prioritizing energy efficiency improvements as a fundamental approach to energy management. This principle emphasizes that minimizing energy demand and maximizing efficiency should come before considering alternative energy sources or technologies. By improving energy efficiency, systems and processes can operate more effectively, ultimately consuming less energy and reducing waste. When energy efficiency is prioritized, it allows for a more sustainable use of energy resources, which can lead to a decrease in overall energy consumption while still meeting the needs of users. This foundational strategy plays a crucial role in achieving energy sustainability and reducing reliance on non-renewable energy sources. In contrast to maximizing energy consumption or utilizing fossil fuels first, which may lead to increased environmental concerns and resource depletion, focusing on efficiency provides a clear path toward a more sustainable energy future. Similarly, while developing new energy technologies is important, it often comes after existing efficiency measures have been optimized.

## 6. What is meant by energy resilience?

- A. The ability to reduce electricity consumption
- B. The ability to adapt to and recover from energy disruptions**
- C. The capacity to increase energy efficiency
- D. The method of producing renewable energy

Energy resilience refers to the capacity of a system to effectively absorb, recover from, and adapt to adverse events that disrupt energy supply. This includes disruptions such as natural disasters, cyber-attacks, or equipment failures that could impact the reliability and availability of energy services. The focus on adaptation and recovery highlights the importance of not only withstanding energy disruptions but also restoring functionality quickly. This aspect of resilience goes beyond simply maintaining or optimizing current energy use; it involves being prepared for, and responsive to, unforeseen challenges, ensuring that communities and systems can continue to operate even in the face of significant challenges. In summary, energy resilience is fundamentally about having strategies and systems in place that support sustained energy availability and flexibility, making it the most accurate choice in this context.

**7. What aspect do renewable portfolio standards primarily influence?**

- A. Household energy efficiency**
- B. Market prices of traditional energy**
- C. Utility energy sourcing from renewable resources**
- D. Consumer energy consumption behavior**

Renewable portfolio standards (RPS) primarily influence a utility's sourcing of energy from renewable resources. These standards require utilities to obtain a certain percentage of their energy from renewable sources such as solar, wind, and hydro. This creates a regulatory framework that incentivizes the development and integration of renewable energy technologies into the electricity supply. By mandating a specific quota of renewable energy, RPS promote investment in renewable energy sources and accelerate the transition from fossil fuels. This mechanism is crucial for advancing the usage of clean energy, reducing greenhouse gas emissions, and enabling utilities to diversify their energy portfolios. As a result, RPS play a significant role in shaping how electricity is produced and consumed, fostering a more sustainable energy landscape. In contrast, the other choices relate to different aspects of energy use or market behaviors that are not directly governed by RPS, such as household efficiency measures, market pricing strategies for traditional energy sources, or shifting consumer behavior regarding energy consumption. These elements, while interconnected, are influenced by different policies and market dynamics separate from the mandates set by renewable portfolio standards.

**8. When did the Battle of Midway take place?**

- A. 1-3 June 1942**
- B. 3-5 June 1942**
- C. 7-9 June 1942**
- D. 10-12 June 1942**

The Battle of Midway took place from June 4 to June 7, 1942, with the primary combat occurring from June 4 to June 6. This battle was a significant turning point in the Pacific Theater of World War II, as it marked the first major victory for the United States against Japan, allowing the U.S. Navy to gain the initiative in the Pacific. The battle involved a series of planned attacks by U.S. forces against Japanese aircraft carriers, which resulted in the sinking of four Japanese carriers and a shift in naval power in the Pacific. The dates chosen in the correct answer align with the specific days on which key engagements and turning points in the battle occurred, making it essential in understanding the timeline of World War II.

**9. What type of fracture is characterized by the bone protruding through the skin?**

- A. Closed/simple**
- B. Open/compound**
- C. Greenstick**
- D. Stress**

The type of fracture characterized by the bone protruding through the skin is referred to as an open or compound fracture. This type of fracture is significant because the break in the bone creates an opening in the skin, which can expose the bone to the external environment. This exposure increases the risk of infection and complicates the healing process. In contrast, a closed or simple fracture does not break the skin, meaning there is no external wound associated with the fracture. Greenstick fractures are typically incomplete fractures that occur predominantly in children, where the bone bends and cracks on one side without breaking all the way through. Stress fractures are overuse injuries that lead to tiny cracks in the bone but do not involve a complete break or protrusion through the skin. Understanding the type of fracture is crucial for determining the appropriate treatment and managing any potential complications associated with it.

**10. What supports the plane's weight when it is on the ground?**

- A. The main landing gear**
- B. The flight spoilers**
- C. The leading edge slats**
- D. The trim tabs**

The main landing gear is specifically designed to support the weight of the aircraft when it is on the ground. This system consists of wheels, struts, and supporting structures that distribute the aircraft's weight uniformly, allowing for safe ground operations such as taxiing, takeoff, and landing. The main landing gear must be robust enough to withstand the significant forces experienced during these operations, ensuring the aircraft's stability and integrity while stationary. The other components mentioned have different functions. Flight spoilers are primarily used to reduce lift and increase drag during descent and landing, contributing to better control and stopping distances rather than supporting weight. Leading edge slats are designed to improve aerodynamic performance by increasing lift at lower speeds, particularly during takeoff and landing phases, and do not participate in weight support. Trim tabs are control surfaces that assist in stabilizing the aircraft in flight and are not involved in supporting the aircraft on the ground.