

Basic Engineering Common Core (BECC) 1 Practice Test (Sample)

Study Guide



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Questions

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- 1. What is the main goal of a zone inspection?**
 - A. To track budget compliance**
 - B. To verify departmental performance metrics**
 - C. To ensure cleanliness and organization**
 - D. To monitor employee productivity**
- 2. Who directly supervises the administrative portion of the 3 M program?**
 - A. Work center supervisor**
 - B. 3M coordinator**
 - C. Department head**
 - D. Maintenance Officer**
- 3. What is the primary use of an Emergency Escape Breathing Device (EEBD)?**
 - A. General air supply**
 - B. Firefighting**
 - C. Emergency escape**
 - D. Maintenance work**
- 4. Who is in charge of the tag out log while underway?**
 - A. EOOW**
 - B. EDO**
 - C. Tag Out Officer**
 - D. Damage Control Officer**
- 5. What must you inspect on hoods and helmets to ensure secure breathing?**
 - A. Wiring and fixtures**
 - B. Rips and tears**
 - C. Padding and comfort fit**
 - D. Color and visibility**

- 6. What color is the case of an actual Emergency Escape Breathing Device (EEBD)?**
- A. Red**
 - B. White**
 - C. Grey**
 - D. Orange**
- 7. What is the direct responsibility of a safety officer?**
- A. To manage training sessions for staff**
 - B. To ensure all equipment and personnel are safe and up to date**
 - C. To conduct audits on safety procedures**
 - D. To report to upper management**
- 8. What tool is utilized to measure the specific tightness of a fastener?**
- A. Socket wrench**
 - B. Torque wrench**
 - C. Adjustable wrench**
 - D. Pliers**
- 9. Who maintains the list of qualified signers for the PQS?**
- A. Unit Coordinator**
 - B. Safety Officer**
 - C. Department Head**
 - D. Program Manager**
- 10. What technical instruction ensures maintenance procedures are followed?**
- A. JFMM**
 - B. OPNAV**
 - C. COMNAV**
 - D. MIL-STDs**

Answers

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

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Explanations

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1. What is the main goal of a zone inspection?

- A. To track budget compliance**
- B. To verify departmental performance metrics**
- C. To ensure cleanliness and organization**
- D. To monitor employee productivity**

The main goal of a zone inspection is to ensure cleanliness and organization. This practice is essential in maintaining a safe and efficient work environment, particularly in industrial and manufacturing settings. By focusing on cleanliness and organization, a zone inspection helps identify any hazards, ensures that equipment is properly maintained, and promotes a culture of workplace safety and efficiency. A clean and organized environment can directly impact overall productivity, reduce the risk of accidents, and improve employee morale. When areas are regularly inspected, it not only helps in upholding standards but also serves as a visual reminder to all employees about the importance of maintaining a disciplined work area. Such inspections are typically part of a broader quality management system aimed at improving operational effectiveness and workplace conditions.

2. Who directly supervises the administrative portion of the 3 M program?

- A. Work center supervisor**
- B. 3M coordinator**
- C. Department head**
- D. Maintenance Officer**

The 3M (Maintenance Material Management) program involves intricate management of maintenance and material systems, ensuring that administrative tasks are effectively handled to support the program's overall goals. The direct supervision of the administrative portion of the 3M program falls under the responsibility of the 3M coordinator. This role is crucial as the coordinator ensures that all administrative processes are adhered to, including maintaining records, overseeing procedures, and facilitating communication among different departments involved in maintenance activities. The 3M coordinator is specifically trained and designated to manage the 3M program's operations, making them the focal point for any administrative tasks associated with it. Their role is essential for ensuring compliance with policies and procedures, providing training to staff, and maintaining the overall efficiency of the program. As the point of contact for issues arising in the management of 3M tasks, the coordinator plays a significant role in supporting the operational readiness of the organization. In contrast, the work center supervisor, department head, and maintenance officer have distinct responsibilities that do not center specifically on the administrative aspect of the 3M program. While they may be involved in maintenance operations and oversee teams, their roles are more focused on direct supervision of maintenance work and ensuring operational effectiveness, rather than managing the administrative functions.

3. What is the primary use of an Emergency Escape Breathing Device (EEBD)?

- A. General air supply**
- B. Firefighting**
- C. Emergency escape**
- D. Maintenance work**

The primary use of an Emergency Escape Breathing Device (EEBD) is to provide a safe means of escape in hazardous environments, particularly where there may be smoke, toxic gases, or a lack of breathable air. The EEBD is designed to be a portable, self-contained unit that supplies breathable air for a limited duration, enabling the user to evacuate potentially life-threatening situations safely. In emergencies such as a fire or chemical spill, individuals may be required to leave a dangerous area quickly. The device allows for swift access to air, facilitating a rapid and safe escape without the need for additional equipment or training beyond basic familiarization. The focus of an EEBD is on swift evacuation rather than prolonged respiratory support; hence, it is not intended for use during firefighting activities or maintenance work that may require longer-term air supply systems.

4. Who is in charge of the tag out log while underway?

- A. EOOW**
- B. EDO**
- C. Tag Out Officer**
- D. Damage Control Officer**

The correct choice of the Engineer Officer of the Watch (EOOW) being in charge of the tag out log while underway is based on the responsibilities assigned to this position in a naval operations context. The EOOW is responsible for overseeing the safe and efficient operation of the engineering plant. This role includes managing various systems and ensuring that all safety and operational protocols are followed, including the proper use and documentation of tag out procedures. When a vessel is underway, the EOOW is responsible for maintaining situational awareness about the operational status of the engineering systems. This includes ensuring that any maintenance or servicing work being performed is properly tagged out to prevent accidental operation, thereby safeguarding both personnel and equipment. The tag out log serves as a crucial communication tool, reflecting the current status of locks or tags that indicate equipment condition and work being performed. In contrast, while the other roles mentioned may have specific duties related to safety and operations, they do not have the primary responsibility for the tag out log during underway operations. The Engineering Duty Officer (EDO) has oversight responsibilities but does not manage the tag out log directly. The Tag Out Officer typically has a role more focused on compliance with tag out procedures rather than direct operational management, and the Damage Control Officer primarily deals with firef

5. What must you inspect on hoods and helmets to ensure secure breathing?

- A. Wiring and fixtures**
- B. Rips and tears**
- C. Padding and comfort fit**
- D. Color and visibility**

Inspecting hoods and helmets for rips and tears is essential to ensure secure breathing for several reasons. The integrity of these protective gear pieces is crucial in maintaining a safe environment, particularly in scenarios that involve exposure to harmful substances or environments where respiratory protection is necessary. Rips and tears can compromise the ability of the material to form a proper seal around the face, leading to potential leakage of contaminants. Moreover, a damaged hood or helmet may not provide adequate protection against particulate matter or chemical exposure. Therefore, checking for any signs of damage like rips and tears is a key maintenance step to ensure that the equipment functions as intended, protecting the user and ensuring they can breathe safely without inhalation of harmful agents. While other aspects of the gear, such as wiring and fixtures, padding, and color visibility, may be important for functionality and comfort, they do not directly influence the effectiveness of breathing protection as rips and tears do.

6. What color is the case of an actual Emergency Escape Breathing Device (EEBD)?

- A. Red**
- B. White**
- C. Grey**
- D. Orange**

The case of an actual Emergency Escape Breathing Device (EEBD) is typically colored orange. This bright color is strategically chosen for visibility and recognition in emergency situations, ensuring that it can be easily located when needed. The design and color serve as a crucial safety feature, helping personnel quickly identify the device among other safety equipment or in low-visibility settings, such as smoke-filled environments. Using an orange case allows for quick differentiation from other types of equipment, which might not be required in emergency scenarios, thus aiding in an efficient evacuation. The bright color is part of the overall safety protocol, promoting rapid use of the EEBD when time is critical. Understanding the significance of color in safety equipment can enhance situational awareness during emergencies, making it essential to recognize the visual cues that indicate specific functions or uses of various devices.

7. What is the direct responsibility of a safety officer?

- A. To manage training sessions for staff**
- B. To ensure all equipment and personnel are safe and up to date**
- C. To conduct audits on safety procedures**
- D. To report to upper management**

The direct responsibility of a safety officer is to ensure all equipment and personnel are safe and compliant with relevant safety standards and regulations. This role is crucial in creating a safe working environment, which includes overseeing the proper use and maintenance of safety equipment, ensuring that personnel follow safety protocols, and identifying potential hazards in the workplace. By focusing on the safety of equipment and personnel, the safety officer plays a pivotal role in preventing accidents and injuries. This involves regularly checking that equipment meets safety requirements, providing guidance to employees on safe practices, and maintaining up-to-date knowledge of safety regulations and best practices. Other responsibilities mentioned, such as managing training sessions, conducting audits, and reporting to management, are indeed important aspects of a safety program but are typically secondary tasks that support the primary responsibility of ensuring safety.

8. What tool is utilized to measure the specific tightness of a fastener?

- A. Socket wrench**
- B. Torque wrench**
- C. Adjustable wrench**
- D. Pliers**

The tool designed to measure the specific tightness of a fastener is a torque wrench. This instrument allows the user to apply a precise amount of torque to a nut or bolt, ensuring that it is tightened to the manufacturer's specifications. Torque wrenches are critical in applications where correct tension is essential for performance, such as in automotive assembly, machinery, and construction, to prevent loosening or overtightening that may lead to failure or damage. The other tools mentioned have different primary functions. A socket wrench is generally used for turning fasteners but does not measure torque. An adjustable wrench can grip various sizes of nuts and bolts, but it also lacks a measurement feature for tightness. Pliers are versatile tools for gripping and bending but are not intended for applying or measuring torque to fasteners.

9. Who maintains the list of qualified signers for the PQS?

A. Unit Coordinator

B. Safety Officer

C. Department Head

D. Program Manager

The list of qualified signers for the PQS (Personnel Qualification Standards) is maintained by the Unit Coordinator. This role is integral in ensuring that the personnel assigned to carry out specific tasks are appropriately qualified and that their credentials are kept up to date. The Unit Coordinator oversees training and qualification processes within the unit, making them the responsible party for maintaining accurate records of who is qualified to sign off on the PQS. This ensures that the necessary standards are met for the safety and efficacy of operations within the unit. Other roles, such as the Safety Officer, Department Head, and Program Manager, have different responsibilities. The Safety Officer focuses on compliance with safety protocols, the Department Head oversees departmental functions and management, and the Program Manager coordinates various program aspects, but none are specifically tasked with maintaining the PQS signers list as the Unit Coordinator is.

10. What technical instruction ensures maintenance procedures are followed?

A. JFMM

B. OPNAV

C. COMNAV

D. MIL-STDs

The correct answer is JFMM, which stands for Joint Fleet Maintenance Manual. This technical instruction serves as a comprehensive guide that provides detailed procedures and standards for the maintenance of Navy ships and aircraft. It ensures that all maintenance activities are carried out in a consistent and effective manner, following established protocols. By adhering to the guidelines set forth in the JFMM, personnel are trained to perform maintenance tasks reliably, ensuring the safety and operational readiness of naval assets. Other choices, while related to military operations and maintenance, do not specifically focus on maintenance procedures in the same way. OPNAV, which refers to the Office of the Chief of Naval Operations, provides overall naval policy but is broader in scope. COMNAV refers to various commands within the Navy and is more administrative, while MIL-STDs are military standards that define various practices but do not directly address the procedure and methodology for maintenance as the JFMM does. Thus, the JFMM is uniquely positioned to provide the necessary framework for maintaining military equipment in accordance with set procedures.