

# Basic Engineering Common Core (BECC) 4 Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Table of Contents

<b>Copyright</b> .....	<b>1</b>
<b>Table of Contents</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>How to Use This Guide</b> .....	<b>4</b>
<b>Questions</b> .....	<b>5</b>
<b>Answers</b> .....	<b>8</b>
<b>Explanations</b> .....	<b>10</b>
<b>Next Steps</b> .....	<b>16</b>

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. Which of the following describes a piece of metal used for water tight doors or frames?**
  - A. Door frame**
  - B. Knife edge**
  - C. Water seal**
  - D. Rim lock**
  
- 2. What is typically used to dewater the generator room?**
  - A. Submersible pump**
  - B. Water hose**
  - C. Pneumatic vacuum**
  - D. Hand pump**
  
- 3. What can be used to maintain some boundaries when doors or hatches are open?**
  - A. Fire blankets**
  - B. Smoke curtains and smoke blankets**
  - C. Sealants**
  - D. Water barriers**
  
- 4. During what conditions can an eductor be utilized?**
  - A. Only when the ship is docked**
  - B. While at sea, regardless of weather conditions**
  - C. When conditions allow safe operations**
  - D. Only during emergency drills**
  
- 5. What is the method for checking the battery condition of the PECU?**
  - A. Connect to a charger**
  - B. Put it in test position**
  - C. Inspect visually for damage**
  - D. Measure with a multimeter**

- 6. What is the primary function of a damage control book on a naval vessel?**
- A. To serve as a historical record**
  - B. To outline emergency procedures**
  - C. To define accountability**
  - D. To track repair costs**
- 7. Which method is commonly used to isolate a fire hazard?**
- A. Blocking entrances**
  - B. Shutting off power**
  - C. Isolating it**
  - D. Notifying personnel**
- 8. Which repair party is responsible for maintaining the flight and hangar deck?**
- A. Fire team**
  - B. Crash and salvage**
  - C. Damage control**
  - D. Repair 5**
- 9. What is the term for the side-to-side motion of a ship?**
- A. Roll**
  - B. Yaw**
  - C. Pitch**
  - D. List**
- 10. Fire boundaries are manned by which type of personnel?**
- A. Boundary-man**
  - B. Fire Marshall**
  - C. Emergency Response Team**
  - D. Safety Monitor**

## Answers

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

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## **Explanations**

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**1. Which of the following describes a piece of metal used for water tight doors or frames?**

- A. Door frame**
- B. Knife edge**
- C. Water seal**
- D. Rim lock**

The correct choice identifies a specific design feature used to create a watertight seal in doors or frames, known as a knife edge. This term refers to a sharp, tapered edge that is mounted on the door or frame, which enhances the sealing capability when the door is closed. The shallow, sharp contact enables a better fit, allowing the metal to compress against a matching surface to prevent water ingress more effectively. In contrast, a door frame is a structural component that supports the door but does not specifically describe any features related to making it watertight. A water seal typically refers to the materials (like gaskets or rubber seals) used to create a barrier against water but is less specific than the knife edge. A rim lock is a type of locking mechanism that provides security to a door but does not pertain to water resistance or sealing features.

**2. What is typically used to dewater the generator room?**

- A. Submersible pump**
- B. Water hose**
- C. Pneumatic vacuum**
- D. Hand pump**

A submersible pump is typically used to dewater generator rooms because it is specifically designed for moving water out of areas where it has accumulated, such as basements or generator rooms. These pumps are capable of operating while submerged in water, which means they can effectively remove large volumes of water quickly and efficiently. Submersible pumps are robust and can handle various water levels, making them ideal for emergency situations where water needs to be removed to prevent damage to equipment and ensure safe operation. The design allows for easy installation directly under the water, and the pump can be activated as needed to maintain dry conditions in the generator room. While other methods, such as using a water hose or a hand pump, could theoretically remove water, they are not as efficient or effective in such settings. A pneumatic vacuum, although useful in some applications, isn't typically employed for dewatering large areas like a generator room due to limitations in capacity and mobility.

### 3. What can be used to maintain some boundaries when doors or hatches are open?

- A. Fire blankets
- B. Smoke curtains and smoke blankets**
- C. Sealants
- D. Water barriers

Using smoke curtains and smoke blankets is an effective method for maintaining boundaries when doors or hatches are open, particularly in scenarios related to fire safety and smoke management. Smoke curtains are designed to channel and contain smoke, helping to create barriers that limit the spread of smoke throughout a space. They can be used to direct smoke toward vents or out of openings, reducing the likelihood of smoke filling a larger area and allowing for safer evacuations and improved visibility during emergencies. Smoke blankets serve a similar purpose by providing a physical barrier to smoke movement. These products can be deployed to cover openings and help prevent smoke from permeating into protected or unexposed areas. This is crucial in fire scenarios where smoke can be just as dangerous and detrimental as flames. Other options like fire blankets, sealants, and water barriers do not specifically address the issue of smoke containment in the same effective way. Fire blankets are used to extinguish small fires rather than control smoke, while sealants are typically related to providing airtight seals for preventing drafts or leaks, not necessarily smoke control. Water barriers can be utilized to prevent the spread of fire but are not specifically designed for smoke containment. Hence, smoke curtains and smoke blankets are the most appropriate choice for maintaining boundaries when doors or hatches are

### 4. During what conditions can an eductor be utilized?

- A. Only when the ship is docked
- B. While at sea, regardless of weather conditions
- C. When conditions allow safe operations**
- D. Only during emergency drills

An eductor, which is a device used for pumping liquid and removing waste or bilge water through the use of jet propulsion, can be utilized effectively when conditions allow for safe operations. This includes ensuring that the ship is stable and secure enough to operate the eductor without risk of injury to personnel or damage to the vessel. Operational safety is paramount in marine environments, especially given the potential hazards associated with rough seas or unfavorable weather conditions. When conditions are unsafe, the functionality of the eductor may be compromised or pose risks to the crew and the ship itself. Therefore, the usage of an eductor is contingent upon determining that the prevailing conditions are safe for such operations. Other scenarios described, like only using it while docked or limiting it to emergency drills, do not encompass the full range of acceptable operational contexts for an eductor. Thus, recognizing the need for safe operational conditions is essential for maximizing the efficacy and safety of the eductor's function.

**5. What is the method for checking the battery condition of the PECU?**

- A. Connect to a charger**
- B. Put it in test position**
- C. Inspect visually for damage**
- D. Measure with a multimeter**

The best method for checking the battery condition of the Power Electronics Control Unit (PECU) is to put it in test position. When a device is set to test mode, it typically enables diagnostics that can assess the battery's performance and health more accurately. This method allows the PECU to run specific checks and ensure that it can meet the operational demands placed on it, including the ability to hold a charge and deliver the required current. Setting the PECU to a test position can provide key insights into its battery life and overall functionality, which is critical for maintaining system reliability and safety. Utilizing a diagnostic mode designed for the PECU facilitates a more thorough examination than a simple visual inspection or charging, which may not reveal underlying issues.

**6. What is the primary function of a damage control book on a naval vessel?**

- A. To serve as a historical record**
- B. To outline emergency procedures**
- C. To define accountability**
- D. To track repair costs**

The primary function of a damage control book on a naval vessel is to outline emergency procedures. This crucial document provides essential instructions for responding to various emergencies, such as flooding, fire, and other damages that could threaten the vessel's integrity or the safety of its crew. By having clear procedures outlined, crew members can quickly reference the book during a crisis, ensuring that they follow the correct actions to mitigate damage, protect lives, and maintain operational capability. The focus on emergency procedures underscores the importance of preparedness in maritime environments, where quick and effective responses can mean the difference between containment and catastrophe. It serves as a vital resource that enables trained personnel to manage damage control situations systematically and effectively.

**7. Which method is commonly used to isolate a fire hazard?**

- A. Blocking entrances**
- B. Shutting off power**
- C. Isolating it**
- D. Notifying personnel**

Isolating a fire hazard involves taking specific actions that prevent the fire risk from spreading or causing harm. This can include removing combustible materials from the area, securing the environment to limit access, and ensuring that any potential ignition sources are controlled. When a hazard is isolated properly, it minimizes the risk of a fire starting or escalating, allowing for a safer environment for personnel and property. Blocking entrances, shutting off power, and notifying personnel can be part of a broader fire safety strategy but do not directly equate to isolation of the hazard itself. Blocking entrances may restrict access but doesn't necessarily mitigate the hazard. Shutting off power might prevent equipment from igniting, but it doesn't address other potential fire risks in the area. Notifying personnel is crucial for awareness and safety protocols but does not directly contribute to controlling or isolating a fire hazard. Thus, isolating the hazard is the most effective and direct method for managing fire risks.

**8. Which repair party is responsible for maintaining the flight and hangar deck?**

- A. Fire team**
- B. Crash and salvage**
- C. Damage control**
- D. Repair 5**

The repair party responsible for maintaining the flight and hangar deck is the crash and salvage team. This team focuses on tasks related to aircraft recovery, fire suppression, and ensuring the operational readiness of the flight deck and hangar area. Their role is crucial during incidents involving aircraft, particularly in emergencies like crashes or fires, where immediate response and recovery can prevent further damage and potential loss of life. In contrast, other groups, like fire teams, primarily focus on firefighting and suppression tasks in various areas of a ship but do not manage flight operations. Damage control teams handle flooding, structural integrity, and general repair tasks throughout the vessel, while Repair 5 typically deals with specific maintenance and repair solutions but does not specialize in the unique challenges of the flight and hangar deck environment. Thus, the distinct responsibilities of the crash and salvage party align directly with the maintenance and operational safety of the flight and hangar deck.

## 9. What is the term for the side-to-side motion of a ship?

- A. Roll**
- B. Yaw**
- C. Pitch**
- D. List**

The term for the side-to-side motion of a ship is "Roll." This motion occurs when a ship tilts from side to side around its longitudinal axis, which runs from the bow (front) to the stern (back) of the vessel. Roll is a normal aspect of a ship's operation, particularly when it is subjected to waves and wind. It is crucial for stability and handling, as excessive roll can lead to a loss of cargo or even capsizing in severe conditions. Understanding roll is essential for safe navigation and for designing vessels that can withstand varied marine environments. Other terms listed represent different types of motion: Yaw refers to the rotation of a ship around its vertical axis, affecting its direction, while Pitch describes the motion of the vessel moving up and down around the transverse axis, much like a seesaw. List refers to the angle of inclination of a ship due to an imbalance in weight or external forces, which can lead to persistent tilting without the ship actively rolling as in the case of a wave action.

## 10. Fire boundaries are manned by which type of personnel?

- A. Boundary-man**
- B. Fire Marshall**
- C. Emergency Response Team**
- D. Safety Monitor**

Fire boundaries are manned by personnel known as boundary-men. These individuals play a crucial role in fire safety protocols, especially in environments where there is a risk of fire spreading beyond controlled areas. Their primary responsibility is to monitor and maintain the integrity of fire boundaries, ensuring that flammable materials do not exceed designated limits and that potential fire hazards are managed effectively. Boundary-men are trained to understand fire behavior, recognize hazardous situations, and take appropriate actions to safeguard both personnel and property. They also act as a communication link during firefighting efforts, providing essential information to fire suppression teams regarding the status of the area within the boundary. While other roles, such as fire marshals, emergency response teams, and safety monitors, contribute to overall safety and emergency response, boundary-men specifically focus on managing the fire boundaries within an operation. This specialization makes them essential for preventing the spread of fire and ensuring adherence to safety regulations in potentially hazardous areas.

## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://becc4.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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