

# Auxiliary Officer and Electrical Division Section 1 Common Core Practice Test (Sample)

## Study Guide



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

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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. Growth work is defined as what?**
  - A. Replacement of existing components**
  - B. Emergency repair**
  - C. Additional work added to existing job where more material is required**
  - D. Stand-alone job added after contract is written**
  
- 2. WBGT measurement requirements on board?**
  - A. 2 required on board**
  - B. 1 required**
  - C. 3 required**
  - D. 4 required**
  
- 3. Which NSTM covers Electrical Safety?**
  - A. Electrical Safety**
  - B. Surface Ship Firefighting**
  - C. Lube Oils**
  - D. JP-5 Fuel Systems**
  
- 4. Which action is associated with the phrase 'Contractors walk ship' in the material?**
  - A. Update navigation charts**
  - B. Audit vendor invoices**
  - C. Evaluate equipment on contract**
  - D. Record safety training**
  
- 5. Which statement best differentiates heat stroke from heat exhaustion based on signs?**
  - A. Hot dry skin, constricted pupils, rapid pulse**
  - B. Clammy skin and dilated pupils**
  - C. Moist skin with normal pulse**
  - D. Cold skin with bradycardia**

- 6. The TCRM ABCD Model consists of four steps in the correct order. Which sequence correctly lists all four steps?**
- A. Assess Situation, Balance Resources, Communicate to Others, Do and Debrief**
  - B. Assess Situation; Do and Debrief; Balance Resources; Communicate to Others**
  - C. Communicate to Others; Assess Situation; Balance Resources; Do and Debrief**
  - D. Do and Debrief; Assess Situation; Balance Resources; Communicate to Others**
- 7. Which item is commonly required when working on energized equipment?**
- A. Rubber gloves with hand and face protection**
  - B. Sunglasses**
  - C. Earplugs**
  - D. Sandals**
- 8. Which set correctly lists the watch organization conditions as I, II, III, IV?**
- A. I - GQ, II - Elevated in specific area, III - wartime cruising, IV - peacetime cruising**
  - B. I - GQ, II - Wartime cruising, III - Elevated in specific area, IV - Peacetime cruising**
  - C. I - GQ, II - Peacetime cruising, III - Elevated in specific area, IV - Wartime cruising**
  - D. I - GQ, II - Elevated in specific area, III - Peacetime cruising, IV - Wartime cruising**
- 9. Dry Bulb Parameters placement distance from ventilation?**
- A. At least 2 ft**
  - B. At least 1 ft**
  - C. At least 3 ft**
  - D. At least 4 ft**

**10. Which watch organization condition corresponds to wartime cruising?**

- A. III - Wartime cruising**
- B. I - GQ**
- C. IV - Peacetime cruising**
- D. II - Elevated in specific area**

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## Answers

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

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## **Explanations**

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## 1. Growth work is defined as what?

- A. Replacement of existing components
- B. Emergency repair
- C. Additional work added to existing job where more material is required**
- D. Stand-alone job added after contract is written

Growth work means adding more scope to an existing job because more materials (and often labor) are now required to complete it. It happens when the original contract covers a certain amount of work, but during execution you determine that extra material is needed to finish properly. This is handled through a modification or change order to the current contract, so the project remains one cohesive job rather than starting a new, separate project. This is different from replacing components (which is just swapping out worn parts with equivalent ones), emergency repairs (urgent fixes done quickly to restore function), or a stand-alone job added after the contract (which would be a separate contract altogether). Growth work expands the existing job's scope and cost because of the additional materials needed.

## 2. WBGT measurement requirements on board?

- A. 2 required on board**
- B. 1 required
- C. 3 required
- D. 4 required

WBGT monitoring on board is about capturing heat stress risk across the actual work environment. Because WBGT is influenced by direct sunlight, shade, humidity, and different work zones, you need two measurements to get a reliable picture of conditions crew members face. With two devices, you can place one in a sun-exposed area and another in a shaded or representative indoor area, ensuring you identify the higher risk and can apply appropriate work-rest schedules and safety measures. It also provides redundancy in case one unit fails. A single measurement may miss hot spots or peak conditions, while more than two isn't the standard requirement for this purpose.

## 3. Which NSTM covers Electrical Safety?

- A. Electrical Safety**
- B. Surface Ship Firefighting
- C. Lube Oils
- D. JP-5 Fuel Systems

Electrical Safety focuses on protecting personnel and equipment from electrical hazards aboard ships. The NSTM with this exact scope provides guidance on safe electrical work, including de-energizing circuits, lockout/tagout procedures, testing for voltage absence, appropriate personal protective equipment, grounding and bonding, proper tool and insulation use, arc-flash prevention, and how to respond to electrical incidents. This makes it the best resource for understanding how to manage risks around electrical systems. The other topics cover different areas: Surface Ship Firefighting is about responding to fires on ships, Lube Oils deals with lubrication and oil system maintenance, and JP-5 Fuel Systems covers fuel handling and related equipment.

**4. Which action is associated with the phrase 'Contractors walk ship' in the material?**

- A. Update navigation charts**
- B. Audit vendor invoices**
- C. Evaluate equipment on contract**
- D. Record safety training**

Contractors walk ship signals checking the equipment that a contractor is responsible for. When contractors are on board, a walkthrough focuses on the equipment they've been contracted to provide or maintain, making sure it's installed correctly, functioning properly, and documented according to the contract requirements. This is why evaluating equipment on contract is the best match for that phrase—it directly addresses the contractor's scope of work and the condition of the equipment they handle. Other actions don't align with this phrase as closely. Updating navigation charts is about navigational data, not contractor activity. Auditing vendor invoices covers financial and procurement aspects, not on-site equipment checks. Recording safety training relates to personnel readiness rather than the status of contracted equipment.

**5. Which statement best differentiates heat stroke from heat exhaustion based on signs?**

- A. Hot dry skin, constricted pupils, rapid pulse**
- B. Clammy skin and dilated pupils**
- C. Moist skin with normal pulse**
- D. Cold skin with bradycardia**

The main idea is that heat stroke and heat exhaustion differ by how the body's cooling system is functioning. In heat stroke, the body's ability to regulate temperature collapses, core temperature climbs above 40°C, and sweating often stops, leaving the skin hot and dry. A rapid pulse accompanies this stress response as the heart works to pump blood and cool the body. This hot, dry skin with a fast pulse is the best indicator of heat stroke rather than heat exhaustion, where sweating continues and the skin tends to be moist and often cooler. The other signs described—clammy or moist skin, or cold skin with a slow pulse—fit heat exhaustion or other conditions, not heat stroke.

6. The TCRM ABCD Model consists of four steps in the correct order. Which sequence correctly lists all four steps?

**A. Assess Situation, Balance Resources, Communicate to Others, Do and Debrief**

**B. Assess Situation; Do and Debrief; Balance Resources; Communicate to Others**

**C. Communicate to Others; Assess Situation; Balance Resources; Do and Debrief**

**D. Do and Debrief; Assess Situation; Balance Resources; Communicate to Others**

The sequence tests how to move from understanding a situation to taking coordinated action and then reviewing what happened. Start by **Assessing the Situation** to gather facts, determine urgency, hazards, and objectives. With that understanding, you **Move to Balance Resources**, making sure you have the right personnel, equipment, and time allocated to address the needs you've identified. Then **Communicate to Others** so everyone knows the plan, their roles, and the timing. Finally, **Do and Debrief**: execute the actions and afterward review how things went to capture lessons and improve future responses. This order matters because each step relies on the one before it. You shouldn't act or debrief before you know what's actually going on, and you shouldn't try to coordinate or deploy resources without a clear plan.

7. Which item is commonly required when working on energized equipment?

**A. Rubber gloves with hand and face protection**

**B. Sunglasses**

**C. Earplugs**

**D. Sandals**

Protecting against electric shock and arc flash when working on energized equipment relies on wearing the right insulating PPE for the hands and face. Rubber insulating gloves provide the necessary electrical insulation to keep current from entering the skin, and they should be used with leather protectors to resist nicks and punctures. Adding face protection, such as a face shield or hood, helps protect the eyes and face from arc flash and flying debris that can occur if faults happen. Sunglasses don't offer the level of protection needed against arc flash or shock. Earplugs protect hearing, not the electrical hazards involved. Sandals give no insulation and leave feet vulnerable. Therefore, wearing rubber insulating gloves with hand and face protection is the appropriate choice when working on energized equipment.

**8. Which set correctly lists the watch organization conditions as I, II, III, IV?**

- A. I - GQ, II - Elevated in specific area, III - wartime cruising, IV - peacetime cruising**
- B. I - GQ, II - Wartime cruising, III - Elevated in specific area, IV - Peacetime cruising**
- C. I - GQ, II - Peacetime cruising, III - Elevated in specific area, IV - Wartime cruising**
- D. I - GQ, II - Elevated in specific area, III - Peacetime cruising, IV - Wartime cruising**

Watch organization conditions are about how ready the crew and ship are to respond to threats. General Quarters is the highest level, where the entire ship is on battle stations and all damage-control and combat readiness actions are active. The next level is an elevated watch in a specific area, where vigilance is increased in a defined zone but the ship isn't at full battle stations. Wartime cruising represents operating under combat conditions while still moving and conducting routines, but without the universal battle-stations posture. Peacetime cruising is normal, everyday operations with standard watches. So the sequence that correctly reflects increasing readiness and then returning to normal is General Quarters, then elevation in a specific area, then wartime cruising, and finally peacetime cruising. This order makes sense because you move from full readiness to focused readiness, to combat-era cruising, and back to normal operations as conditions allow. Other options mix up the levels (for example, placing peacetime before wartime or misplacing the area-focused elevation), which wouldn't align with the typical progression of watch readiness.

**9. Dry Bulb Parameters placement distance from ventilation?**

- A. At least 2 ft**
- B. At least 1 ft**
- C. At least 3 ft**
- D. At least 4 ft**

The key idea is to get an accurate reading of room air temperature by avoiding the influence of direct airflow from vents. If a dry-bulb sensor sits right in the jet of supply air, the reading will reflect the temperature of that stream rather than the room's average air temperature, leading to skewed measurements. Placing the sensor at least 2 feet away from ventilation outlets reduces this direct jet effect while still staying within the room's representative air. This distance helps ensure the reading reflects the room's ambient temperature rather than localized heating or cooling from the vent. For consistency, keep the sensor away from direct sunlight, radiant heat sources, and obstructions that could create stagnant pockets, so the measurement represents the typical breathing-zone temperature.

**10. Which watch organization condition corresponds to wartime cruising?**

**A. III - Wartime cruising**

**B. I - GQ**

**C. IV - Peacetime cruising**

**D. II - Elevated in specific area**

Understanding watch conditions means matching the described posture to the level of readiness during operations. Wartime cruising is the state where the ship is actively operating under wartime conditions with heightened alertness, but not at the battle stations level. That makes it the correct match for the given option because it describes a wartime operating posture without going to General Quarters. General Quarters means maximum readiness with damage control and weapons teams deployed at battle stations, which is a higher state than wartime cruising. Peacetime cruising reflects normal, non-wartime operations, and elevated in a specific area denotes increased readiness only in a localized region. So the condition that corresponds to wartime cruising is the wartime cruising label.

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## 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://auxoelectrosec1commoncore.examzify.com>**

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

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