

# Overhead Certification of Crane Operators (CCO) 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>15</b>

SAMPLE

# 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. If the load does not balance after being raised off the floor, what should you do first?**
  - A. Lower to the floor and adjust the rigging**
  - B. Carry low to the ground until you can place it**
  - C. Work a little slower than you normally would**
  - D. Carry as high as possible away from crane**
  
- 2. Which are the three basic components of an overhead crane?**
  - A. Bridge, trolley and hoist**
  - B. Mast, jib and counterweight**
  - C. Boom, pinion and rotor**
  - D. Girder, cable and pulley**
  
- 3. A 'mobile straddle lift gantry crane' will run on which of the following?**
  - A. Jib**
  - B. Rails**
  - C. Rubber tires**
  - D. None of the above**
  
- 4. Which standard addresses below-the-hook lifting devices in crane equipment?**
  - A. ASME B30.20**
  - B. ASME B30.19**
  - C. ASME B30.79**
  - D. ASME B30.10**
  
- 5. A rectangular block measuring 5 ft by 3 ft by 2 ft has a volume of 30 cubic feet. Which statement is true?**
  - A. Volume is 15 cubic feet**
  - B. Volume is 20 cubic feet**
  - C. Volume is 25 cubic feet**
  - D. Volume is 30 cubic feet**

- 6. When hoisting, which position of the hoist controller yields the slowest speed?**
- A. First position**
  - B. Second position**
  - C. Third position**
  - D. Fourth position**
- 7. If you adjust the spreader to a smaller angle, what happens to the tension on the load?**
- A. Tension increases**
  - B. Tension decreases**
  - C. Tension stays the same**
  - D. Tension becomes unpredictable**
- 8. A 'mobile straddle lift gantry crane' is usually used for what purpose?**
- A. In a steel foundry**
  - B. In a manufacturing plant**
  - C. In a ship repair yard**
  - D. For moving shipping containers**
- 9. True or False: An outdoor storage bridge crane must be equipped with a parking brake or rail clamp for use when the crane is sitting idle.**
- A. True**
  - B. False**
  - C. Only parking brake**
  - D. Only rail clamp**
- 10. Which term describes very short load movements during hoisting?**
- A. Inching**
  - B. Idling**
  - C. Plugging**
  - D. Skewing**

## Answers

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

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## **Explanations**

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**1. If the load does not balance after being raised off the floor, what should you do first?**

**A. Lower to the floor and adjust the rigging**

**B. Carry low to the ground until you can place it**

**C. Work a little slower than you normally would**

**D. Carry as high as possible away from crane**

When a load isn't balanced after being raised, the priority is to restore balance by adjusting the rigging. A balanced load has its center of gravity directly under the crane hook, which keeps the load from tilting or swinging and reduces the risk of tipping or striking nearby people or structures. Lowering the load to the floor creates a stable base and lets you reposition or reconfigure the slings, shackles, or other rigging so the weight's center of gravity lines up with the hook. Once balanced, lift again with better control. Carrying the load low without fixing the rigging won't correct the balance, and trying to move it more slowly doesn't address the root cause. Carrying the load high away from the crane increases leverage and swing, creating more danger.

**2. Which are the three basic components of an overhead crane?**

**A. Bridge, trolley and hoist**

**B. Mast, jib and counterweight**

**C. Boom, pinion and rotor**

**D. Girder, cable and pulley**

The lifting and positioning power of an overhead crane comes from three essential parts working together. The bridge is the horizontal frame that spans the area and runs along rails, providing the supporting platform that enables movement across the workspace. The trolley sits on the bridge and moves along its length, carrying the hoist to the exact spot over the load. The hoist is the lifting mechanism attached to the trolley that actually raises and lowers the load, using a drum with rope or chain, motor, and hook. This combination—bridge for reach, trolley for carriage, and hoist for lifting—defines the basic structure and function of an overhead crane. Other terms refer to different crane types or components, but they don't represent the three core subsystems that make an overhead crane operate.

**3. A 'mobile straddle lift gantry crane' will run on which of the following?**

**A. Jib**

**B. Rails**

**C. Rubber tires**

**D. None of the above**

The key idea here is how a mobile gantry crane moves. A mobile straddle lift gantry crane is designed to travel on wheels—specifically rubber tires—so it can reposition itself around a work area. It isn't mounted on rails, and its lifting arm is the bridge with a hoist between the legs that straddle the load. The term "straddle" refers to the legs that go around the load, not the method of movement. Rubber tires are what allow this crane to move like a mobile piece of equipment in a yard or shop floor, whereas rails would indicate a fixed track system. A jib is a separate horizontal arm typical of jib cranes, not the mobility system of a gantry crane.

**4. Which standard addresses below-the-hook lifting devices in crane equipment?**

- A. ASME B30.20**
- B. ASME B30.19**
- C. ASME B30.79**
- D. ASME B30.10**

Below-the-hook lifting devices have their own set of safety rules because they present unique hazards when attached below the crane hook, such as how they connect, wear and fatigue, rated capacity, and inspection needs separate from the crane's moving parts. The standard that covers these devices is ASME B30.20, "Below-the-Hook Lifting Devices," which lays out the design, construction, installation, inspection, testing, maintenance, and safe operation requirements for such devices. This focus helps ensure that spreader bars, clamps, slings, and other hook-attached equipment are treated as specialized safety items rather than generic crane components. The other standards listed address different crane-related topics or components and do not specifically govern below-the-hook devices.

**5. A rectangular block measuring 5 ft by 3 ft by 2 ft has a volume of 30 cubic feet. Which statement is true?**

- A. Volume is 15 cubic feet**
- B. Volume is 20 cubic feet**
- C. Volume is 25 cubic feet**
- D. Volume is 30 cubic feet**

To find the volume of a rectangular block, multiply its length, width, and height. Here that's  $5 \text{ ft} \times 3 \text{ ft} \times 2 \text{ ft} = 30$  cubic feet, so the statement that the volume is 30 cubic feet is true. The other numbers come from multiplying only two dimensions or using an incorrect combination, which doesn't represent the full three-dimensional volume.

**6. When hoisting, which position of the hoist controller yields the slowest speed?**

- A. First position**
- B. Second position**
- C. Third position**
- D. Fourth position**

Hoist speed is controlled by the position of the hoist controller. Each position maps to a different motor speed setting, with the lowest setting delivering the slowest, most controllable lift. Using the slowest setting is important for precise alignment and gentle handling of the load, especially when positioning near the ground, near obstacles, or when you need to minimize sway. As you move the controller to higher positions, the motor receives more power and the hoist moves faster, which is useful for quicker lifts or traveling with the load. So the slowest speed comes from the lowest/first setting on the controller, while higher settings increase speed.

7. If you adjust the spreader to a smaller angle, what happens to the tension on the load?

- A. Tension increases**
- B. Tension decreases**
- C. Tension stays the same**
- D. Tension becomes unpredictable**

When a load is supported by two lines from a spreader, how much each line must pull depends on the angle of the lines relative to the spreader bar (the horizontal). If the angle is small, the lines are more horizontal and contribute less vertical support. The vertical component of each line's tension is  $T \sin \phi$ , where  $\phi$  is the angle with the horizontal. The load  $W$  must equal the sum of these vertical components:  $2 T \sin \phi = W$ , so  $T = W / (2 \sin \phi)$ . As  $\phi$  gets smaller,  $\sin \phi$  gets smaller, causing  $T$  to increase. In short, reducing the spreader angle makes the tension on the load higher.

8. A 'mobile straddle lift gantry crane' is usually used for what purpose?

- A. In a steel foundry**
- B. In a manufacturing plant**
- C. In a ship repair yard**
- D. For moving shipping containers**

A mobile straddle lift gantry crane is designed to move large, standardized cargo containers efficiently within a yard or terminal. Its legs straddle the container stacks, and it uses a spreader to lock onto the container corner fittings, allowing quick lifting and transfer from ships, trucks, or storage areas. Being mobile, it can travel between locations, making it ideal for container handling in ports and intermodal yards. In contrast, steel foundries and many manufacturing plants require other crane types suited to irregular loads or different work environments, not primarily for containers. So its main use is moving shipping containers.

9. True or False: An outdoor storage bridge crane must be equipped with a parking brake or rail clamp for use when the crane is sitting idle.

- A. True**
- B. False**
- C. Only parking brake**
- D. Only rail clamp**

Securing a bridge crane when it's not in use is essential, especially outdoors where wind, slope, or shifts can cause the crane to move along the rails. A parking brake or a rail clamp provides a reliable way to hold the crane in place and prevent any unintended movement that could lead to collisions, derailments, or injuries. Because either method effectively stops movement, the requirement is met if the crane is equipped with either a parking brake or a rail clamp for idle periods. The idea that only one specific option must be used isn't correct—the key point is that there is a means to secure the crane when idle, and either device satisfies that need.

**10. Which term describes very short load movements during hoisting?**

**A. Inching**

**B. Idling**

**C. Plugging**

**D. Skewing**

Very short load movements during hoisting are described by inching. Inching means moving the load only a small distance at a time in slow, controlled steps so you can position it precisely and monitor any swing or misalignment. This contrasts with other terms: idling isn't about moving the load at all, just keeping the engine or drive running; plugging is using braking to soak up energy and stop more abruptly; skewing refers to misalignment or lateral load deviation, not the pace of movement.

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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://overheadcco.examzify.com>**

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

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