

RIGGING PRACTICES TEST PRACTICE (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. In a symmetric 3-leg bridle sling, what happens to capacity as angle θ increases?**
 - A. Overall capacity decreases.
 - B. Increases
 - C. Stays the same
 - D. Varies unpredictably
- 2. How does increasing the sling angle from horizontal affect the stress in the sling?**
 - A. Increases
 - B. Decreases
 - C. Has no effect
 - D. Varies with load
- 3. Which statement is NOT a recommended practice when using a tag line?**
 - A. Use tag line to control load movement.
 - B. Use tag line in tight spaces; in corners; or when rotation risk.
 - C. Keep line clear of obstacles.
 - D. Do not use a tag line to control load rotation because it is not effective.
- 4. Why is it important to verify load direction in rigging operations?**
 - A. To ensure forces act as intended and do not cause uncontrolled movement or side loads
 - B. Because it looks neat
 - C. It doesn't matter
 - D. Only to meet documentation
- 5. Which signal corresponds to both boom up and hoist movement in some configurations?**
 - A. The signal for boom up and lower hoist
 - B. The signal for hoist
 - C. The signal for lower boom
 - D. The signal for move slow

- 6. When are loads allowed to be moved over personnel?**
- A. Never
 - B. Only with a designated exclusion zone
 - C. Always if the operator approves
 - D. Only during maintenance
- 7. What is the unit for the area of the triangle mentioned in the example?**
- A. Square feet
 - B. Square meters
 - C. Square inches
 - D. Square yards
- 8. Which signal would you see to indicate trolley movement?**
- A. Signal for travel
 - B. Signal for lowering
 - C. Signal for trolley
 - D. Signal for emergency stop
- 9. Which signal is used to lower the boom?**
- A. The signal for lower boom
 - B. The signal for move slow
 - C. The signal for hoist
 - D. The signal for boom up
- 10. The white truck crane has a category of four and the yellow truck crane has a category of one. Which statement is true?**
- A. The white truck crane is category 4 and is higher than the yellow truck crane category 1
 - B. The white truck crane is category 1 and is higher than the yellow truck crane category 4
 - C. Both cranes are category 4
 - D. Both cranes are category 1

Answers

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

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Explanations

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1. In a symmetric 3-leg bridle sling, what happens to capacity as angle θ increases?

A. Overall capacity decreases.

B. Increases

C. Stays the same

D. Varies unpredictably

Sling capacity depends on how the load is shared among the legs as the angle changes. In a symmetric 3-leg bridle, each leg carries a tension that has to provide the weight vertically. If each leg makes an angle θ with the vertical, the vertical components of the three leg tensions sum to the load, so the maximum load you can lift before any leg is overstressed is $W_{max} = 3 \times (\text{per-leg capacity}) \times \cos \theta$. As θ increases, $\cos \theta$ decreases, so W_{max} decreases. This means the overall capacity falls with larger angles because the legs must carry more tension to produce the same vertical lift, reducing how much weight the system can safely handle.

2. How does increasing the sling angle from horizontal affect the stress in the sling?

A. Increases

B. Decreases

C. Has no effect

D. Varies with load

When slings share a load, how much tension each sling carries depends on the sling angle. If you have two slings supporting a weight, the vertical balance requires the sum of the vertical components of the sling tensions to equal the load. If α is the angle each sling makes with the horizontal, the vertical component of each tension is $T \sin \alpha$, so $2 T \sin \alpha = W$, giving $T = W / (2 \sin \alpha)$. As α grows from 0 toward 90 degrees, $\sin \alpha$ grows from 0 to 1, so the tension T decreases from very large toward $W/2$. In other words, increasing the sling angle from horizontal makes the sling bear less tension (stress). Keep in mind that excessively large angles can introduce other concerns like side loading, so practical angles must be chosen safely.

3. Which statement is NOT a recommended practice when using a tag line?

A. Use tag line to control load movement.

B. Use tag line in tight spaces; in corners; or when rotation risk.

C. Keep line clear of obstacles.

D. Do not use a tag line to control load rotation because it is not effective.

Tag lines are a control tool used to guide a load and influence its orientation during movement. They give the rigging crew a way to steer the load and keep it aligned, especially when the crane operator alone cannot fully manage rotation or when working in tight spaces, corners, or areas where rotation risk is present. Keeping the line clear of obstacles is essential so the line can perform without snagging, tripping, or causing miscommunication. The statement about not using a tag line to control load rotation because it isn't effective is inaccurate. Tag lines can influence rotation and help maintain the desired orientation when used properly and coordinated with the signaler and other rigging controls. That's why the other practices are correct, and this one isn't.

4. Why is it important to verify load direction in rigging operations?

- A. To ensure forces act as intended and do not cause uncontrolled movement or side loads**
- B. Because it looks neat
- C. It doesn't matter
- D. Only to meet documentation

Verifying load direction is essential because the line of action of the load determines how forces are distributed through every piece of rigging. When the pull aligns with the intended direction, each component shares the load as designed, keeps the load path predictable, and allows you to control movement rather than letting it swing or shift unexpectedly. Off-direction pulls create side loads and unpredictable movement, which can overload anchors, shackles, slings, or hooks, and increase the risk of hardware failure or injury. In practice, angles in multi-leg rigs change the vertical capacity and introduce horizontal forces, so confirming the correct direction preserves safety and increases the chances the lift goes smoothly. Choices about aesthetics, indifference, or documentation don't address these safety and performance considerations.

5. Which signal corresponds to both boom up and hoist movement in some configurations?

- A. The signal for boom up and lower hoist**
- B. The signal for hoist
- C. The signal for lower boom
- D. The signal for move slow

In crane signaling, some commands are mapped to more than one control so actions can be coordinated. In certain configurations, a single signal can drive both the boom movement and the hoist at the same time, allowing you to raise the boom while adjusting the load height. The signal that corresponds to both boom up and lower hoist is the one that, in those configurations, triggers those two actions simultaneously. This mapping is configuration-specific, so it's important to follow the crane's signal chart and site procedures to know when this dual-action signal applies. The other signals are more limited: a signal for the hoist moves only the hoist; a signal for lowering the boom affects just the boom; a signal to move slowly controls speed, not the direction of boom or hoist.

6. When are loads allowed to be moved over personnel?

- A. Never**
- B. Only with a designated exclusion zone
- C. Always if the operator approves
- D. Only during maintenance

Loads should never be moved over personnel because a lifting operation poses a serious risk of injury from a falling or swinging load. Even with a trained operator and an exclusion area, failures can occur in the rigging, crane, or anchors, and unpredictable factors like wind or dynamic forces can cause the load to strike someone. The safest practice is to route the load so its path never crosses areas where people are present, and to stop or re-route the lift if anyone is in the way. The ideas of moving over people with an exclusion zone, or based on operator approval, or only during maintenance, do not remove the fundamental danger and are not acceptable practices.

7. What is the unit for the area of the triangle mentioned in the example?

- A. Square feet**
- B. Square meters
- C. Square inches
- D. Square yards

Measuring area uses square units because you're accounting for two dimensions. If the triangle's base and height are in feet, multiplying them gives feet squared, and the 1/2 factor in the area formula doesn't change that unit. So the area is expressed in square feet. If the same triangle had been described with meters or inches, the area would be in square meters or square inches, respectively. Since the example's dimensions are given in feet, the resulting area unit is square feet.

8. Which signal would you see to indicate trolley movement?

- A. Signal for travel
- B. Signal for lowering
- C. Signal for trolley**
- D. Signal for emergency stop

In overhead crane signaling, different signals control different parts of the system. The trolley is the carriage that moves along the bridge, carrying the hoist. Signals labeled for trolley movement are the ones that instruct the trolley to move along the bridge, separate from signals that move the bridge along the runway (travel) or lift/lower the load (hoist). An emergency stop halts all motion, not just the trolley. So, when you want the trolley to move, you look for the signal specifically designated for the trolley. The others control the bridge's travel or the hoist operation, or stop everything, so they don't indicate trolley movement.

9. Which signal is used to lower the boom?

- A. The signal for lower boom**
- B. The signal for move slow
- C. The signal for hoist
- D. The signal for boom up

In crane signaling, there is a distinct gesture that communicates bringing the boom down. This signal is specifically understood to instruct the operator to lower the boom, which is a different action from moving the load, raising the boom, or simply changing speed. Using the dedicated "lower the boom" signal ensures the operator executes the correct movement without confusion. The other signals correspond to other commands—slowing down, hoisting the load, or raising the boom—so they would not accomplish the intended action of lowering the boom.

10. The white truck crane has a category of four and the yellow truck crane has a category of one. Which statement is true?

A. The white truck crane is category 4 and is higher than the yellow truck crane category 1

B. The white truck crane is category 1 and is higher than the yellow truck crane category 4

C. Both cranes are category 4

D. Both cranes are category 1

Category numbers indicate relative level, with higher numbers meaning a higher category. The white truck crane is category 4 and the yellow truck crane is category 1, so the white crane sits in a higher category than the yellow crane. That makes the statement true. The other options would conflict with the given categories (for example, white being category 1 or both cranes sharing the same higher category), so they don't fit.

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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.

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

<https://riggingpractices.examzify.com>

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

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