

EPRI Rigger's Handbook 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. What temperature range applies to Rings and Links?**
 - A. Between 400 degrees and -40 degrees Fahrenheit**
 - B. Between -40 degrees and 400 degrees Fahrenheit**
 - C. Between 0 degrees and 100 degrees Fahrenheit**
 - D. Between -100 degrees and 0 degrees Fahrenheit**

- 2. The windspeed unit used for the consultation rule is which?**
 - A. Miles per hour**
 - B. Kilometers per hour**
 - C. Meters per second**
 - D. Knots**

- 3. Which of the following is NOT a hitch type?**
 - A. Vertical**
 - B. Horizontal**
 - C. Choker**
 - D. Vertical Basket**

- 4. What determines crane capacity?**
 - A. Strength of components, machine weight, and stability**
 - B. Operator skill only**
 - C. Weather conditions only**
 - D. Outrigger spread only**

- 5. What does a 1 short audible signal indicate when the crane is moving?**
 - A. Stop**
 - B. Go ahead**
 - C. Back up**
 - D. Pause**

- 6. The cylinder volume is calculated using which formula?**
 - A. $\pi r^2 h$**
 - B. $\pi r h$**
 - C. $\pi d^2 h / 4$**
 - D. $2\pi r h$**

- 7. Eyebolts are used for what purpose?**
- A. Ropes**
 - B. Wheels**
 - C. Boom Extension**
 - D. Anchor Points in Lifting and Rigging**
- 8. Using the opposite distance method for calculating CG, how is End1 calculated?**
- A. End1 = End2 weight x total length**
 - B. End1 = End2 weight/total weight x total length**
 - C. End1 = End2 x End length**
 - D. End1 = End2 weight/End1 total length**
- 9. To what concept does the abbreviation CG refer?**
- A. Cable Gauge**
 - B. Center of Gravity**
 - C. Cradle Grip**
 - D. Component Grounding**
- 10. Which natural fiber is commonly used as a natural fiber grade?**
- A. Hemp**
 - B. Jute**
 - C. Sisal**
 - D. Manilla**

Answers

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

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Explanations

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1. What temperature range applies to Rings and Links?

- A. Between 400 degrees and -40 degrees Fahrenheit**
- B. Between -40 degrees and 400 degrees Fahrenheit**
- C. Between 0 degrees and 100 degrees Fahrenheit**
- D. Between -100 degrees and 0 degrees Fahrenheit**

Rings and Links are rated to operate safely across a wide temperature span, ensuring their material strength and serviceability from very cold to fairly hot conditions. The appropriate range is from -40°F up to 400°F, covering both extreme cold and high temperatures where steel properties and lubricants could be affected. At temperatures much lower than -40°F, metal can become brittle; at temperatures above 400°F, strength and hardness can degrade and lubricants may break down, reducing performance and safety. This is why the standard rating for Rings and Links is -40°F to 400°F.

2. The windspeed unit used for the consultation rule is which?

- A. Miles per hour**
- B. Kilometers per hour**
- C. Meters per second**
- D. Knots**

Windspeed for the consultation rule is expressed in miles per hour. This unit is common in U.S.-based field safety references and aligns with the customary units used on most job sites. Using mph makes it straightforward for workers to read from weather reports and from on-site instruments without having to convert to another system, which helps prevent misinterpretation of thresholds that trigger a consultation. Other units like knots (nautical), kilometers per hour (metric), or meters per second (metric/science) would require conversions and can introduce errors in a fast-paced rigging environment. Sticking with miles per hour keeps the rule consistent with how wind limits are communicated and applied in practice.

3. Which of the following is NOT a hitch type?

- A. Vertical**
- B. Horizontal**
- C. Choker**
- D. Vertical Basket**

A hitch describes how the rope or sling is wrapped around or attached to the load to secure it for lifting. Recognized hitch types include the vertical hitch, which aligns the lift with the load's axis; the choker hitch, which tightens around the load to grip it securely; and the basket hitch (including a vertical basket variant), which cradles the load by wrapping the rope around it in two legs. These configurations are defined by the way the rope interacts with the load to produce grip and stability. The term horizontal isn't a standard hitch type. It describes orientation rather than a specific method of tying the rope around the load, so it isn't used as a formal hitch configuration. That's why it isn't considered a valid hitch type, whereas the other three are.

4. What determines crane capacity?

A. Strength of components, machine weight, and stability

B. Operator skill only

C. Weather conditions only

D. Outrigger spread only

Crane capacity is determined by what the crane's structure and base can safely handle in a given setup. The key factors are the strength of the crane's components (booms, jib, sheaves, ropes, gears), the overall weight and balance of the machine, and the stability of the setup (how the machine is supported on the ground, including outriggers and counterweights). These elements together set the rated load for a particular configuration. Operator skill affects safe operation and setup, but not the mechanical limit of what the crane can lift. Weather can influence safe lifting and may impose practical reductions in load due to wind or dynamic effects, but the fundamental capacity rating comes from structural strength, weight distribution, and stability. Outrigger spread is part of stability, yet it is not the sole determinant of capacity.

5. What does a 1 short audible signal indicate when the crane is moving?

A. Stop

B. Go ahead

C. Back up

D. Pause

Audible signals on a crane are used for immediate, clear communication between the signal person and the operator. A single short sound is the stop cue—the operator must halt the crane right away. This immediate stop helps prevent accidents if something isn't clear or a hazard appears, and it gives the signal person a chance to reassess and relay the next instruction. Different actions, like moving forward, backing up, or pausing, use other signal patterns or lengths, so they aren't confused with the stop signal. After stopping, the operator waits for a clear instruction before resuming.

6. The cylinder volume is calculated using which formula?

A. $\pi r^2 h$

B. $\pi r h$

C. $\pi d^2 h / 4$

D. $2\pi r h$

Volume of a cylinder comes from the area of the circular base times its height. The base area is π times the radius squared, so the volume is $V = \pi r^2 h$. This form is most straightforward when you're given the radius. If you're given the diameter, you can convert using $r = d/2$, giving $V = \pi d^2 h / 4$, which is the same value. The other expressions either describe a surface feature (like the lateral area $2\pi r h$) or omit the r^2 term, so they don't represent the volume correctly.

7. Eyebolts are used for what purpose?

- A. Ropes
- B. Wheels
- C. Boom Extension
- D. Anchor Points in Lifting and Rigging**

Eyebolts provide a fixed attachment point for lifting and rigging equipment. In lifting operations you need a dependable place to connect slings, shackles, or hooks, and the eye of the bolt serves as that anchor point where the load can be attached and pulled in a controlled direction. They're selected and rated for the load they'll carry, and the lift is designed so the force is applied along the axis of the eye. Eyebolts aren't intended for guiding ropes, adding wheels, or extending booms, and improper use (like side loading or bending) can cause failure. Use the correct size and rating and ensure the load path stays in the plane of the eye for safe lifting and rigging.

8. Using the opposite distance method for calculating CG, how is End1 calculated?

- A. $\text{End1} = \text{End2 weight} \times \text{total length}$
- B. $\text{End1} = \text{End2 weight} / \text{total weight} \times \text{total length}$**
- C. $\text{End1} = \text{End2} \times \text{End length}$
- D. $\text{End1} = \text{End2 weight} / \text{End1 total length}$

The idea behind the opposite distance method is to locate the center of gravity along a span by balancing moments: the distance from End1 to the CG is proportional to the weight on the opposite end relative to the total weight. If End2 carries the other weight, then the distance from End1 to the CG is End2 weight divided by the total weight, multiplied by the total length between the ends. In formula form, $\text{End1 distance} = (\text{End2 weight} / \text{total weight}) \times \text{total length}$. This reflects the intuition that a heavier weight on the opposite end pulls the CG closer to that end, increasing End1's distance. The total length is split between End1 and End2 distances so their sum equals the full length. The other expressions don't satisfy the moment-balance relationship because they omit the normalization by total weight or mix the quantities incorrectly.

9. To what concept does the abbreviation CG refer?

- A. Cable Gauge
- B. Center of Gravity**
- C. Cradle Grip
- D. Component Grounding

CG stands for Center of Gravity, the single point where the object's weight can be considered to act. This concept is essential in rigging and lifting because it determines how the load will behave when suspended. If the lift line passes through the CG and the load is balanced, the forces on the sling and hardware stay vertical, reducing side loading and unintended rotation. When the load is uneven, the CG shifts, which can cause tipping, swinging, or unequal stresses on attachments. Therefore, riggers locate and align the lifting point with the load's CG and adjust the rigging to keep the CG within the line of pull. The other options aren't about balance under gravity: Cable Gauge measures size, Cradle Grip is a different grip type, and Component Grounding relates to electrical safety.

10. Which natural fiber is commonly used as a natural fiber grade?

- A. Hemp**
- B. Jute**
- C. Sisal**
- D. Manilla**

In choosing a natural-fiber rope grade, Manila fiber is the standard because it offers a superior balance of strength, flexibility, and wear resistance. Manila rope, made from abaca fibers, has long, strong filaments that deliver high tensile strength for its size, yet remains more pliable than some other natural fibers. It handles knots and bending without excessive fraying, and holds up well under abrasion, which makes it reliable for rigging and general use where a natural-fiber grade is expected. Hemp is a strong natural fiber, but it tends to be coarser and isn't as commonly used to define the standard natural-fiber rope grade. Jute and sisal are widely used for cheaper or lighter-duty applications, but they generally offer lower tensile strength and poorer moisture stability, making them less suitable as the representative natural-fiber grade.

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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://epririggershandbook.examzify.com>

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

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