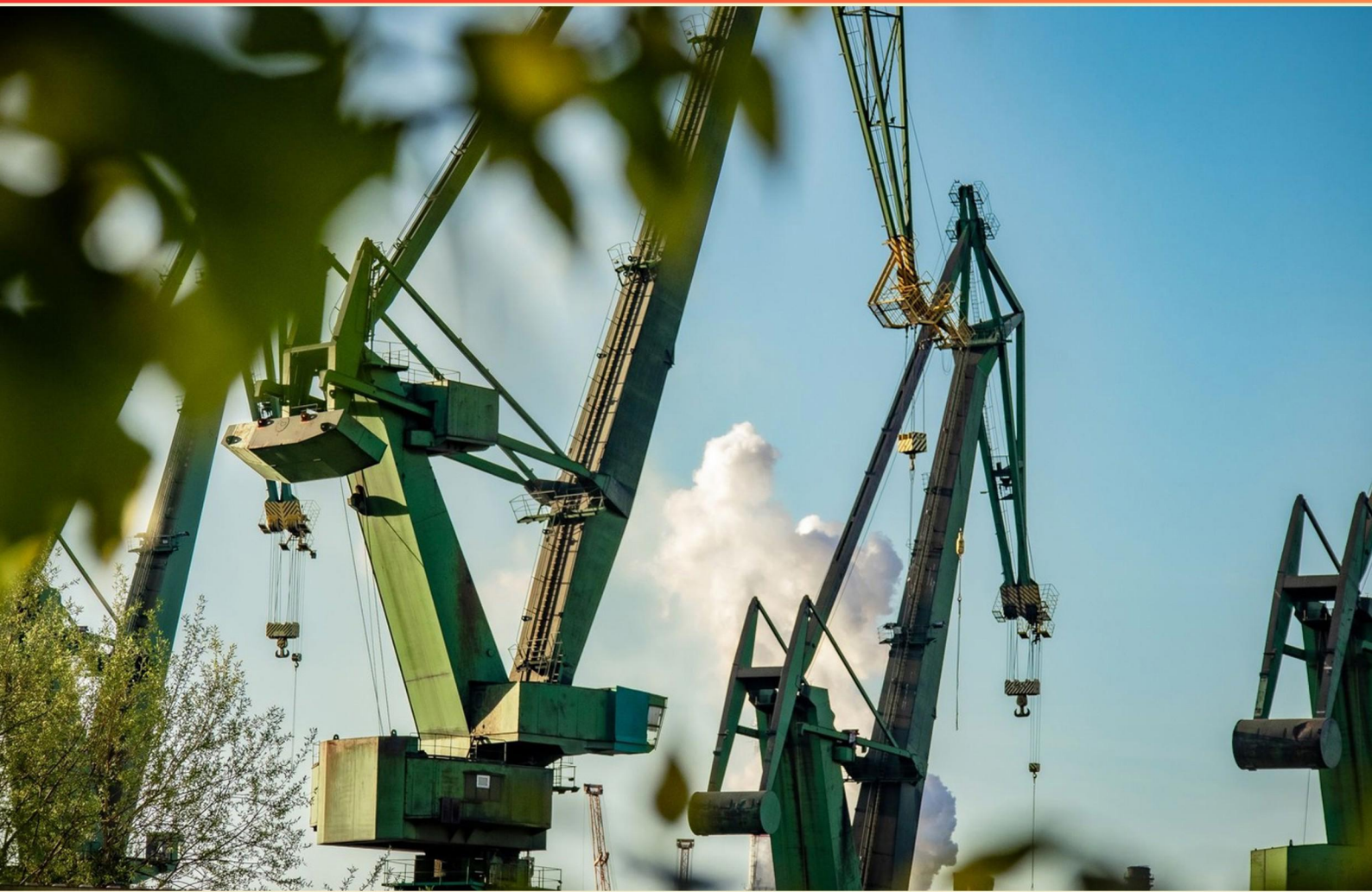


IPT RIGGER 1 PRACTICE EXAM (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

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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 is the design factor for rotation-resistant rope used in hoisting personnel?**
 - A. 5 to 1
 - B. 8 to 1
 - C. 10 to 1
 - D. 12 to 1
- 2. Which items are typically checked in a pre-use inspection for a chain sling?**
 - A. Check only length
 - B. Inspect hooks for cracks and opening
 - C. Check chain for wear, elongation, corrosion, bent or twisted links; inspect hooks for cracks and opening; verify tags; ensure pins and hardware are secure
 - D. Check only color
- 3. When a non-rotating rope is used in a wedge socket, care must be taken to prevent which issue?**
 - A. Core slippage
 - B. Wire pinching
 - C. Surface abrasion
 - D. Bending fatigue
- 4. What term describes the angular relationship that must be aligned when routing a hoist line into a guiding sheave?**
 - A. Fleet angle
 - B. Rope angle
 - C. Azimuth
 - D. Radial angle
- 5. When lifting a load with two slings, at what angle to the horizontal is the load on each sling equal to the load's weight?**
 - A. 45 degrees
 - B. 30 degrees
 - C. 15 degrees
 - D. 60 degrees

- 6. Which statement correctly describes the testing and marking requirements for a custom fabricated lifting beam?**
- A. No testing is required.
 - B. Be tested at 125% after stamping.
 - C. Be designed by an engineer and stamped with rated capacity.
 - D. Be designed by an engineer, stamped with rated capacity, and tested at 125%.
- 7. Which statement correctly describes the relationship between a shackle body and its pin diameter?**
- A. The pin diameter is larger than the body
 - B. The pin diameter is equal to the body
 - C. The pin diameter is not related to body size
 - D. The pin diameter is smaller than the body
- 8. In a symmetric three-leg sling lift, how is the load shared among the legs?**
- A. One leg carries all the load
 - B. Each leg carries about one-third of the load, adjusted by the angle from vertical; tension is $W/(3 \cos \theta)$ per sling for equal angles
 - C. The load is distributed randomly
 - D. Two legs share equally, third is slack
- 9. When slinging a bundle of pipe or tubing, which hitch would provide the best contact between sling and load?**
- A. single wrap choker
 - B. three-leg sling
 - C. basket hitch
 - D. two double wrapped chokers
- 10. Which statement best describes the minimum safety factor in this lifting context?**
- A. The ratio of load to breaking strength
 - B. The ratio of maximum expected load to breaking strength
 - C. The ratio of load to maximum expected load
 - D. The ratio of breaking strength to maximum expected load

Answers

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

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Explanations

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1. What is the design factor for rotation-resistant rope used in hoisting personnel?

- A. 5 to 1
- B. 8 to 1
- C. 10 to 1**
- D. 12 to 1

The design factor is the safety margin used when selecting rope for lifting people. It's calculated as the rope's minimum breaking strength divided by the maximum load you expect the rope to carry, including any sudden shocks or dynamic forces that happen during hoisting. For rotation-resistant rope used to hoist personnel, the standard practice is a design factor of ten to one. That means the rope's strength should be at least ten times the highest load it will encounter, giving enough cushion for dynamic effects, wear, and potential faults. The other options would provide smaller margins that aren't considered adequate for life-critical hoisting, while a much larger factor (like twelve to one) is usually more conservative than typical requirements unless a specific standard calls for it.

2. Which items are typically checked in a pre-use inspection for a chain sling?

- A. Check only length
- B. Inspect hooks for cracks and opening
- C. Check chain for wear, elongation, corrosion, bent or twisted links; inspect hooks for cracks and opening; verify tags; ensure pins and hardware are secure**
- D. Check only color

Pre-use inspection of a chain sling focuses on the integrity of all load bearing components and the identification marks. The best choice reflects checking every critical part: the chain itself for wear, elongation, corrosion, and any bent or twisted links; the hooks for cracks and openings (and to ensure the latches, if present, function properly); the tags to confirm rated capacity and service information; and pins and other hardware to ensure they're secure and not loose or damaged. This combination covers structural condition, secure attachment points, and proper documentation, all of which are essential for safe lifting. The other options are incomplete: checking only length misses wear and damage; checking only color doesn't assess structural integrity; and focusing only on hooks neglects chain condition, tags, and hardware security.

3. When a non-rotating rope is used in a wedge socket, care must be taken to prevent which issue?

- A. Core slippage**
- B. Wire pinching
- C. Surface abrasion
- D. Bending fatigue

When a non-rotating rope is used in a wedge socket, the key issue to prevent is core slippage. The wedge socket relies on the rope being gripped and the load being transferred through the rope's internal structure. If the rope's core slides relative to the outer fibers under load, the load path becomes unreliable, reducing strength and risking failure at the socket. To avoid this, ensure proper seating, compatibility between rope construction and the wedge, and correct assembly so the core remains engaged with the outer strands. While surface abrasion, bending fatigue, or pinching can be concerns in other scenarios, they do not address the primary failure mode here.

4. What term describes the angular relationship that must be aligned when routing a hoist line into a guiding sheave?

- A. Fleet angle**
- B. Rope angle
- C. Azimuth
- D. Radial angle

Fleet angle is the angular relationship you must align as the hoist line enters a guiding sheave. It describes the angle between the rope's direction entering the sheave and the centerline of the rope path (or crane structure) it follows. Keeping this angle properly aligned ensures the rope sits correctly in the sheave groove, distributes loading evenly, and minimizes side loading, wear, and binding as the rope changes direction. This term is the standard way to describe this specific alignment in rigging and hoisting. Other terms like azimuth refer to broad horizontal direction, while rope angle or radial angle aren't the conventional terms used for this situation.

5. When lifting a load with two slings, at what angle to the horizontal is the load on each sling equal to the load's weight?

- A. 45 degrees
- B. 30 degrees**
- C. 15 degrees
- D. 60 degrees

When two slings share a load, the vertical components of their tensions must add up to the load weight. If each sling makes an angle θ with the horizontal, and the tension in each sling is T , then the vertical component of each tension is $T \sin \theta$, and the total vertical support is $2 T \sin \theta = W$. To have the load in each sling equal to the load's weight, set the sling tension equal to W ($T = W$). Plugging in gives $W = 2 W \sin \theta$, so $\sin \theta = 1/2$, which yields $\theta = 30$ degrees. So at 30 degrees to the horizontal, each sling carries a tension equal to the load's weight. If the angle is larger, each sling's tension is less; if smaller, each sling's tension is greater.

6. Which statement correctly describes the testing and marking requirements for a custom fabricated lifting beam?

- A. No testing is required.
- B. Be tested at 125% after stamping.
- C. Be designed by an engineer and stamped with rated capacity.
- D. Be designed by an engineer, stamped with rated capacity, and tested at 125%.**

The key idea is that a custom lifting beam isn't just a welded part; it must be verified as a safe, engineered lifting device. The best way to ensure that is to have it designed by a qualified engineer, clearly stamped with its rated capacity so users know the limit, and then subjected to a proof test at 125% of that rated capacity to confirm it can safely carry more than its nominal load. This combination provides both the design verification and the performance check needed for safe operation. Skipping testing would leave the strength unproven. Mere stamping without a proper design and proof test doesn't confirm safety. A design and stamping without the 125% proof test doesn't verify the actual fabricated strength. So including all three elements—engineer-designed, stamped with rated capacity, and tested at 125%—is the correct, comprehensive approach.

7. Which statement correctly describes the relationship between a shackle body and its pin diameter?

- A. The pin diameter is larger than the body**
- B. The pin diameter is equal to the body
- C. The pin diameter is not related to body size
- D. The pin diameter is smaller than the body

In a shackle, the pin must stay in place under load to keep the connection closed. Making the pin diameter larger than the body's opening provides a positive stop—once the pin is seated, its extra diameter bears against the outer surface and prevents the pin from working its way out of the body. This extra size helps maintain a secure connection even when the shackle is subjected to dynamic or angled loads. If the pin were equal to or smaller than the body opening, there would be clearance that could allow movement or withdrawal under load, reducing safety. So the pin diameter being larger than the body is the design approach that ensures the shackle remains locked and secure during use.

8. In a symmetric three-leg sling lift, how is the load shared among the legs?

- A. One leg carries all the load
- B. Each leg carries about one-third of the load, adjusted by the angle from vertical; tension is $W/(3 \cos \theta)$ per sling for equal angles**
- C. The load is distributed randomly
- D. Two legs share equally, third is slack

In a symmetric three-leg sling lift, the load is carried by the vertical components of the tensions in all three legs, while the horizontal components cancel out due to symmetry. If each leg makes the same angle θ from the vertical, each leg has a tension T and a vertical component $T \cos \theta$. The three vertical components add up to the load: $3 T \cos \theta = W$, so the tension in each leg is $T = W / (3 \cos \theta)$. This means the load on each leg is effectively one-third in terms of vertical support, but the actual sling tension is larger by a factor of $1/\cos \theta$. When the legs are vertical ($\theta = 0$), each leg carries $W/3$ in vertical terms and $T = W/3$. As the legs flare outward (θ increases), $\cos \theta$ decreases and the required tension in each leg increases to maintain lift. Other options don't fit because one leg cannot bear the entire load (the others would slack and the vertical balance would fail); distribution isn't random; and with three legs in a symmetric setup, the load shares are equal in the vertical sense given equal angles, not two-thirds with the third slack.

9. When slinging a bundle of pipe or tubing, which hitch would provide the best contact between sling and load?

- A. single wrap choker
- B. three-leg sling
- C. basket hitch
- D. two double wrapped chokers**

Maximize friction and grip by increasing the contact area around the bundle. Two double wrapped chokers wrap around the pipe from both sides with multiple turns, giving substantial surface contact and bite. This setup distributes the load evenly, resists slipping, and reduces the chance of the bundle shifting or the sling cutting into the pipe. Other configurations don't provide as much continuous contact around the circumference, so they're more prone to slipping or damaging the load. That's why two double wrapped chokers offer the best contact for a bundle of pipe or tubing.

10. Which statement best describes the minimum safety factor in this lifting context?

- A. The ratio of load to breaking strength
- B. The ratio of maximum expected load to breaking strength
- C. The ratio of load to maximum expected load
- D. The ratio of breaking strength to maximum expected load**

In lifting, the safety factor is about the margin between what the gear can safely carry and what it is expected to carry. It is expressed as the breaking strength divided by the maximum expected load. This gives a measure of how many times stronger the gear is than the load it will face, ensuring there's a buffer in worst-case scenarios. That's why describing the minimum safety factor as breaking strength over maximum expected load best captures the design margin. For example, if the breaking strength is 10,000 units and the maximum expected load is 2,000 units, the safety factor is 5. The other ratios either invert this relationship or compare the wrong quantities, which doesn't reflect the intended margin between capacity and demand.

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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://iptrigger1.examzify.com>

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

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