

EICA MOBILE CRANE & DIGGER PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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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 action can potentially cause an extended boom to topple backwards?**
 - A. Moving too quickly
 - B. Swinging from the downhill side to the uphill side
 - C. Operating in a strong wind
 - D. Lowering the boom too fast
- 2. What must the employee in charge do before releasing a clearance?**
 - A. Notify all crew members only
 - B. Make sure the grounds are removed only
 - C. Notify each employee under the clearance and make sure they are in the clear
 - D. Check the electrical readings
- 3. In crane operation, what is the significance of knowing the load chart?**
 - A. It determines the speed of the operation
 - B. It establishes the maximum capacity for given conditions and configurations
 - C. It indicates maintenance needs
 - D. It simplifies communication among operators
- 4. What should the operator do if a crane in operation makes contact with an energized power line and bursts into flames?**
 - A. Call for help
 - B. Jump from the crane
 - C. Attempt to extinguish the flames
 - D. Stay inside the crane
- 5. When is a dedicated spotter required when working near power lines?**
 - A. When the crane can reach within 10 ft. of power lines
 - B. When the crane can reach within 15 ft. of power lines
 - C. When the crane can reach within 20 ft. of power lines
 - D. When the crane can reach within 25 ft. of power lines

- 6. What must an operator do if potential hazards are identified during crane operation?**
- A. Continue operations until the end of the shift
 - B. Notify a supervisor immediately
 - C. Assess the situation independently
 - D. Ignore as long as there is no accident
- 7. What is the minimum number of parts of line required to lift a load weighing 36,500 lbs with a crane that has a line pull of 9,000 lbs?**
- A. 3
 - B. 4
 - C. 5
 - D. 6
- 8. Where is the jib located when in the stowed position?**
- A. On the ground
 - B. At the boom tip
 - C. At the boom base
 - D. At the cab of the crane
- 9. What certification is required for two members of a crew working on overhead lines in remote areas?**
- A. Basic First Aid
 - B. CPR Certification
 - C. First Aid and CPR
 - D. Advanced Medical Training
- 10. What may happen to a properly rigged load that is lifted off the ground, unless boom deflection is taken into account?**
- A. It will stay stationary
 - B. It may swing out away from the crane
 - C. It will descend rapidly
 - D. It will collapse immediately

Answers

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

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Explanations

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1. What action can potentially cause an extended boom to topple backwards?

- A. Moving too quickly
- B. Swinging from the downhill side to the uphill side**
- C. Operating in a strong wind
- D. Lowering the boom too fast

Swinging from the downhill side to the uphill side is particularly hazardous because it places a high load on the crane when the boom is extended. This motion can lead to a shift in the center of gravity, increasing the risk of the crane toppling backwards. When the boom is extended and the swing occurs on uneven ground, the gravitational forces interacting with the load's position can destabilize the crane, especially if combined with an unstable surface or insufficient counterweight. The other options present different risks but do not directly relate to toppling the crane backwards in the same manner. Moving too quickly can lead to loss of control but does not inherently destabilize the crane in the same way as the swing from a downhill position to an uphill one. Operating in a strong wind can affect the crane's stability, particularly affecting its ability to hold any raised load, but does not specifically address the toppling risk associated with extended booms. Lowering the boom too fast can create a sudden shift in load dynamics, but again, it does not directly correlate with the specific mechanics involved in swinging from a downhill to an uphill side.

2. What must the employee in charge do before releasing a clearance?

- A. Notify all crew members only
- B. Make sure the grounds are removed only
- C. Notify each employee under the clearance and make sure they are in the clear**
- D. Check the electrical readings

The correct action for the employee in charge is to notify each employee under the clearance and ensure that they are in a safe position before releasing the clearance. This is essential for maintaining safety on the job site, as it ensures that all personnel are aware of the current status and that no one is in harm's way when operations resume. Effective communication and confirmation are crucial in environments where heavy machinery is involved, like cranes and diggers. Employees must be fully informed about the clearance status to avoid accidents or injuries. This responsibility underscores the need for diligence and thoroughness in safety protocols, ensuring that everyone involved understands when it is safe to proceed with their tasks. Each employee's acknowledgment that they are clear of the area serves as a critical safety measure, reinforcing the importance of individual and collective awareness among the crew. In contrast, notifying only some crew members or focusing solely on equipment checks does not guarantee everyone's safety and could lead to dangerous situations. Additionally, just checking electrical readings may not account for the physical presence of personnel in the area. Safety procedures must encompass comprehensive communication and clearance verification to safeguard all workers.

3. In crane operation, what is the significance of knowing the load chart?

- A. It determines the speed of the operation
- B. It establishes the maximum capacity for given conditions and configurations**
- C. It indicates maintenance needs
- D. It simplifies communication among operators

The load chart is a critical tool for crane operators as it establishes the maximum lifting capacity of the crane under various conditions and configurations. This includes factors such as the boom length, angle, and the overall setup of the crane. Understanding the load chart ensures that the operator can determine safe lifting practices, preventing overload situations that could lead to accidents or equipment failure. The load chart provides essential information on how much weight the crane can safely lift at different positions, which is vital for maintaining stability and safety during operations. By adhering to the guidelines outlined in the load chart, operators can ensure compliance with safety regulations and preserve the integrity of both the crane and the surrounding environment.

4. What should the operator do if a crane in operation makes contact with an energized power line and bursts into flames?

- A. Call for help
- B. Jump from the crane**
- C. Attempt to extinguish the flames
- D. Stay inside the crane

In the event that a crane comes into contact with an energized power line and bursts into flames, the safest course of action is to stay inside the crane rather than jumping out. This choice is based on the principle of electrical safety. When a crane contacts a live power line, the crane itself may become energized, creating a potential electrical hazard. Jumping from the crane can create a larger risk of electric shock as the operator's body becomes a path for the electrical current to ground. Staying inside the cabin protects the operator from this risk, as the crane can act as a Faraday cage, limiting the exposure to electrical hazards. Additionally, when inside the crane, the operator can remain in a safe position until professional help arrives. It is important to call for assistance to remedy the situation safely, as trained emergency personnel will be equipped to handle the power line and the fire. This approach emphasizes the importance of safety protocols when working with heavy machinery around electrical hazards. Proper training and adherence to safety practices can effectively reduce the risk of injury in such scenarios.

5. When is a dedicated spotter required when working near power lines?

- A. When the crane can reach within 10 ft. of power lines
- B. When the crane can reach within 15 ft. of power lines
- C. When the crane can reach within 20 ft. of power lines**
- D. When the crane can reach within 25 ft. of power lines

A dedicated spotter is required when a crane can reach within 20 feet of power lines due to the increased risk of electrocution and other serious hazards associated with working near overhead power lines. This distance is established based on safety regulations and guidelines to ensure that operations remain safe and that the crew is adequately prepared to handle any potential hazards arising from proximity to electrical lines. The presence of a spotter helps to maintain safe distance protocols, assists the operator in navigating the area safely, and ensures that everyone understands the risks involved. The spotter can communicate directly with the crane operator to prevent accidental contact with power lines, which could lead to life-threatening situations. The other distances mentioned would not meet the specific safety standards recognized in the industry for ensuring appropriate oversight and communication when working around electrical hazards. It is crucial for safety protocols to comply with established guidelines to minimize the risk of accidents.

6. What must an operator do if potential hazards are identified during crane operation?

- A. Continue operations until the end of the shift
- B. Notify a supervisor immediately**
- C. Assess the situation independently
- D. Ignore as long as there is no accident

When potential hazards are identified during crane operation, the operator's foremost responsibility is to notify a supervisor immediately. This approach promotes a safe work environment, as supervisors typically have the authority and resources to assess the hazard and implement corrective measures. Timely communication ensures that safety protocols can be put into place, and risk is mitigated for the operator and other personnel on site. Continuing operations until the end of the shift poses unnecessary risks and can lead to accidents, while assessing the situation independently may not be sufficient, as operators may lack the full context or authority to make decisions about hazard remediation. Ignoring potential hazards as long as no accidents occur undermines safety principles since many accidents can arise from unnoticed risks that could have been addressed through proper communication. Taking proactive steps, such as notifying a supervisor, is essential for maintaining safety and compliance with workplace regulations.

7. What is the minimum number of parts of line required to lift a load weighing 36,500 lbs with a crane that has a line pull of 9,000 lbs?

- A. 3
- B. 4
- C. 5**
- D. 6

To determine the minimum number of parts of line required to lift a load safely, it is essential to consider both the weight of the load and the crane's line pull capacity. The load you need to lift weighs 36,500 lbs, while the crane has a maximum line pull capacity of 9,000 lbs. To find out how many parts of line are necessary for safe lifting, you can divide the weight of the load by the crane's line pull capacity. This calculation provides the minimum number of lines needed to lift the load without exceeding the crane's limit: $36,500 \text{ lbs (load)} \div 9,000 \text{ lbs (line pull)} = 4.055$. Since you cannot have a fraction of a line, you round up to the nearest whole number, which is 5. This means that five parts of line are necessary to ensure the load can be lifted safely and effectively without overloading the crane beyond its capacity. Thus, the choice indicating five parts of line reflects the need to account for safety and operational limits in crane lifting applications. In this scenario, selecting five parts of line adequately distributes the weight of the load across the crane's capabilities, ensuring a safe working environment.

8. Where is the jib located when in the stowed position?

- A. On the ground
- B. At the boom tip
- C. At the boom base**
- D. At the cab of the crane

In a mobile crane, when the jib is stowed, it is typically positioned at the boom base. This positioning ensures that the jib is secured and does not extend outward, which can be crucial for safe transportation and stability. Stowing the jib at the boom base minimizes the risk of damage while in transit and keeps the crane's profile as low as possible, which is important for navigating under obstacles or during transport. The other positions described, such as on the ground, at the boom tip, or at the cab of the crane, do not accurately reflect how jibs are designed to be stored when not in use. Storing the jib at these locations could pose safety risks during movement and operational inefficiencies, emphasizing the importance of proper stowing procedures for mobile cranes.

9. What certification is required for two members of a crew working on overhead lines in remote areas?

- A. Basic First Aid
- B. CPR Certification
- C. First Aid and CPR**
- D. Advanced Medical Training

For crews working on overhead lines in remote areas, it is essential for safety and emergency readiness that at least two members possess First Aid and CPR certification. This combination of skills ensures that in the event of an emergency, crew members can provide immediate assistance to injured individuals while also being trained to perform cardiopulmonary resuscitation, which can be critical in life-threatening situations. First Aid certification equips individuals with the ability to manage various medical emergencies, including wounds, fractures, and other first aid necessities, while CPR training specifically focuses on life-saving techniques for cardiac arrest or respiratory failure. The dual skill set enhances the crew's overall safety and preparedness, especially in remote settings where medical help may not be immediately accessible. Having only Basic First Aid or CPR Certification might limit the crew's ability to respond to a wider array of medical emergencies effectively. Advanced Medical Training is extensive and not always necessary for every crew member, making the combination of First Aid and CPR the most practical and effective certification for the given work environment.

10. What may happen to a properly rigged load that is lifted off the ground, unless boom deflection is taken into account?

- A. It will stay stationary
- B. It may swing out away from the crane**
- C. It will descend rapidly
- D. It will collapse immediately

When a load is lifted off the ground by a crane, it's important to consider the effect of boom deflection, which is the natural bending or sagging of the boom under load due to gravitational forces. If this deflection is not accounted for, the load can shift and swing out away from the crane as the boom bends. This movement occurs because the center of gravity of the load may change as the boom flexes. In practical applications, if the load swings out, it can create a dangerous situation, potentially leading to accidents or injuries. Proper rigging techniques and careful calculations regarding boom angles and deflection help ensure that the load remains stable and predictable during lifting operations. Ignoring these factors can lead to unsafe maneuvering and loss of control over the lifted load, which is why understanding boom deflection is critical for crane operation.

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:

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

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