

INTRODUCTION TO MOBILE CRANES 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	9
Explanations	11
Next Steps	16

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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 measures should be taken when lifting loads over or near workers?**
 - A. Lift over workers to save time
 - B. Use only one supervisor
 - C. Establish a clearly marked exclusion zone, use tag lines to control load, maintain line-of-sight communication, stop operations if workers enter the area, and provide PPE
 - D. Increase speed to avoid wind
- 2. What does LMI stand for in crane equipment?**
 - A. Load Moment Indicator
 - B. Lift Measurement Instrument
 - C. Load Monitoring Interface
 - D. Limit Manipulation Indicator
- 3. During load movement, side loading is permitted only with which condition?**
 - A. Freely suspended load
 - B. A load on a sling
 - C. A load on a chain
 - D. A load on a hook block
- 4. What is the primary difference between a telescopic mobile crane and a lattice boom mobile crane in terms of boom extension and speed?**
 - A. Telescopic cranes use hydraulic extension of tubular sections for varying reach and generally offer quicker, smoother extension with moderate lifting capacity; lattice boom cranes use a truss-like boom for higher lifting capacity at greater heights but extends more slowly and requires longer setup.
 - B. Telescopic cranes have slower extension and higher capacity than lattice boom cranes.
 - C. Lattice boom cranes extend by hydraulic cylinders and are faster than telescopic cranes.
 - D. Lattice boom cranes are limited to short reaches and cannot reach tall heights.

5. Once the activity is stopped for any reason, only the _____ can restart it.
- A. Operator
 - B. Lift Director
 - C. Supervisor
 - D. Safety Officer
6. Why is recording a crane's maintenance and inspection history important?
- A. It's optional and rarely used
 - B. It only matters for insurance
 - C. Provides traceability for safety and regulatory compliance, helps predict failures, supports investigations, and informs maintenance planning and upgrades
 - D. It increases downtime
7. What determines the size of the blocking when blocking under the rigging pads are required?
- A. The height of the load
 - B. Ground bearing capacity and ground bearing pressure generated by the crane
 - C. The color of the crane
 - D. Wind speed
8. What risk arises if a bearing surface sinks due to improper support?
- A. Crane lifts away from level
 - B. Crane becomes more stable
 - C. Engine stalls
 - D. Outriggers retract
9. Which term describes a crane with rotating controls?
- A. Swing Cab
 - B. Fixed Cab
 - C. Circle Cab
 - D. Spin Cab

10. How are crane brakes tested during operation, and what are warning signs of brake failure?

- A. Brakes are tested via controlled slowdown and hold checks; warnings include spongy or unresponsive pedals, continued creep when brakes are applied, unusual noise, or overheating
- B. Brakes are tested by gradually increasing engine RPM while the brake is fully applied
- C. Brakes are not tested during operation unless there's a fault
- D. Brake tests are optional and can be skipped

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Answers

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

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Explanations

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1. What measures should be taken when lifting loads over or near workers?

- A. Lift over workers to save time
- B. Use only one supervisor
- C. Establish a clearly marked exclusion zone, use tag lines to control load, maintain line-of-sight communication, stop operations if workers enter the area, and provide PPE**
- D. Increase speed to avoid wind

The key safety concept is controlling the load path and protecting workers from a suspended load. When lifting near people, you must create a clearly marked exclusion zone so no one enters the area where the load could travel or fall. Tag lines help guide or restrain the load and keep it from drifting toward workers, especially if it sways. Maintaining line-of-sight communication between the crane operator, rigger, and others ensures signals are seen and acted on immediately, reducing the chance of a miscommunication that could lead to an accident. If anyone enters the danger zone, stop the lift and reassess before continuing. Providing appropriate PPE—such as hard hats, high-visibility clothing, gloves, and protective footwear—adds a layer of protection in case exposure to the load or contact occurs. These steps together actively reduce the risk of injury from being struck by the load, trapped, or caught in the path. Lifting over workers or speeding up to “save time” does not address the hazard and can create or amplify danger, and relying on just one supervisor ignores the need for clear, continuous communication and zone control.

2. What does LMI stand for in crane equipment?

- A. Load Moment Indicator**
- B. Lift Measurement Instrument
- C. Load Monitoring Interface
- D. Limit Manipulation Indicator

LMI stands for Load Moment Indicator. This safety device on cranes calculates the load moment, which is the weight of the load times its distance from the crane's pivot point, using current boom angle and extension. It compares that moment to the crane's rated capacity for the given configuration and alerts the operator, or even limits movement, to prevent overloading or tipping. Other terms like Lift Measurement Instrument, Load Monitoring Interface, or Limit Manipulation Indicator aren't the standard names for this system, so the correct concept is the Load Moment Indicator.

3. During load movement, side loading is permitted only with which condition?

- A. Freely suspended load**
- B. A load on a sling
- C. A load on a chain
- D. A load on a hook block

Side loading means a sideways force on the crane or hook that happens when the load isn't hanging straight down from the hook. This risk is minimized when the load is freely suspended, with nothing gripping or resting against the hook or other lifting hardware. When the load is held by a sling, chain, or a hook block, the geometry or contact between components can create horizontal forces as the load moves, producing side loading that can push the crane off vertical and stress the rigging. So, side loading during movement is permitted only when the load is freely suspended, ensuring the load's weight acts vertically through the hook without lateral components.

4. What is the primary difference between a telescopic mobile crane and a lattice boom mobile crane in terms of boom extension and speed?

A. Telescopic cranes use hydraulic extension of tubular sections for varying reach and generally offer quicker, smoother extension with moderate lifting capacity; lattice boom cranes use a truss-like boom for higher lifting capacity at greater heights but extends more slowly and requires longer setup.

B. Telescopic cranes have slower extension and higher capacity than lattice boom cranes.

C. Lattice boom cranes extend by hydraulic cylinders and are faster than telescopic cranes.

D. Lattice boom cranes are limited to short reaches and cannot reach tall heights.

The main idea being tested is how the boom design affects how it extends and how fast that extension happens. Telescopic mobile cranes use a single main boom made of tubular sections that slide in and out under hydraulic control. This setup lets the boom reach varying lengths quickly and smoothly, giving a moderate lifting capacity and good flexibility for changing reach on the jobsite. Lattice boom mobile cranes, on the other hand, use a rigid, truss-like boom built from interconnected members. That design provides much higher lifting capacity and the ability to reach greater heights, but extending and setting up the lattice structure takes more time because segments must be aligned, pinned, and tensioned, and more extensive setup is required. So, the key difference in terms of boom extension and speed is that telescopic booms extend rapidly and smoothly with hydraulic tubular sections, while lattice booms extend more slowly due to their segmented lattice construction but offer higher lifting capability and taller reaches.

5. Once the activity is stopped for any reason, only the _____ can restart it.

A. Operator

B. Lift Director

C. Supervisor

D. Safety Officer

After a stop, the restart must be authorized by the Lift Director because they hold the responsibility for the lift plan and the safe execution of the lift. They assess all conditions—hazards, rigging, load, personnel placement, weather, and site factors—and ensure that everything is in order before resuming operations. The operator runs the crane but does not decide when to restart; the supervisor oversees the crew and tasks, but the official restart decision rests with the Lift Director. The Safety Officer ensures safety compliance, but does not have the authority to restart a lift on their own.

6. Why is recording a crane's maintenance and inspection history important?

- A. It's optional and rarely used
- B. It only matters for insurance
- C. Provides traceability for safety and regulatory compliance, helps predict failures, supports investigations, and informs maintenance planning and upgrades**
- D. It increases downtime

Keeping a crane's maintenance and inspection history creates a traceable record of every service, inspection, and modification. This traceability is essential for safety and regulatory compliance because authorities require proof that equipment is regularly inspected, properly maintained, and capable of safe operation. Beyond compliance, the history lets you spot patterns and predict failures by analyzing how components wear over time, when parts tend to reach end of life, and how repairs impact performance. In investigations after an incident, the documented history shows what was done, when, and by whom, helping determine root causes and accountability. It also informs maintenance planning and upgrades by providing concrete data to schedule preventive work, justify part replacements, and decide on equipment improvements. It's not optional, and it isn't about increasing downtime; it's a proactive practice that helps keep the crane safer, more reliable, and cost-effective over its life.

7. What determines the size of the blocking when blocking under the rigging pads are required?

- A. The height of the load
- B. Ground bearing capacity and ground bearing pressure generated by the crane**
- C. The color of the crane
- D. Wind speed

Blocking size is determined by how much pressure the ground can safely bear and the load transmitted by the crane through the pads. The goal is to keep the bearing pressure under the soil's allowable limit, so the ground doesn't fail or settle excessively. So you size the blocking by dividing the total vertical load on the pads by the ground's allowable bearing pressure (including safety factors), which tells you the minimum contact area needed. The higher the soil bearing capacity, or the larger the area you provide, the smaller the required blocking. If soil capacity is low, you need larger blocking to spread the load. Other factors like the height of the load or the crane's color don't determine the blocking size. Wind can affect overall stability, but the basic blocking size comes from the load on the pads and the ground's bearing capacity. For example, a total through-pad load of 400 kN with soil that can safely bear 200 kPa requires at least 2 m² of blocking area (before applying safety factors). In practice you'd pick blocking that provides that footprint with a suitable safety margin.

8. What risk arises if a bearing surface sinks due to improper support?

- A. Crane lifts away from level**
- B. Crane becomes more stable
- C. Engine stalls
- D. Outriggers retract

A crane relies on a level, solidly supported base to keep its center of gravity aligned with the crane's structure. When a bearing surface sinks because the support is inadequate, that base becomes uneven. The crane tilts toward the sunken side, so the body rises away from level. This loss of level condition is why the crane becomes unstable and carries a high risk of tipping under load or even with little load. To avoid this, always ensure outriggers are on firm, level ground and use appropriate pads or cribbing and relevel before lifting. The other outcomes don't fit the situation: the crane wouldn't become more stable; engine stalling isn't a direct consequence of a sinking bearing surface; and outriggers retracting isn't an automatic result of the surface sinking. The real risk is lifting away from level.

9. Which term describes a crane with rotating controls?

- A. Swing Cab**
- B. Fixed Cab
- C. Circle Cab
- D. Spin Cab

Rotating controls are provided when the operator's cab is mounted to rotate with the crane's slewing motion. This is what a swing cab does—the cab is attached to the crane's turntable and rotates as the upper structure turns, keeping the operator oriented with the load path and controls as the crane moves. This arrangement improves visibility and control during rotations and when sweeping through different directions. A fixed cab does not rotate, so it wouldn't have rotating controls. The other two terms aren't standard industry names for this feature and don't specifically describe a cab that rotates with the crane, so they don't fit as precisely.

10. How are crane brakes tested during operation, and what are warning signs of brake failure?

- A. Brakes are tested via controlled slowdown and hold checks; warnings include spongy or unresponsive pedals, continued creep when brakes are applied, unusual noise, or overheating**
- B. Brakes are tested by gradually increasing engine RPM while the brake is fully applied
- C. Brakes are not tested during operation unless there's a fault
- D. Brake tests are optional and can be skipped

Brakes on a mobile crane must be checked while the crane is in operation so you know they will perform under real loads and conditions. A practical approach is to slow down in a controlled way and then apply the brakes to see if the crane can be held at a stop without creeping. This confirms the braking force is adequate, the system responds promptly, and the control is reliable when you need to stop or hold a position. Notice warning signs that brake performance may be failing: a pedal that feels spongy or unresponsive, meaning hydraulic or mechanical components aren't transferring force properly; the crane continues to creep or move slowly even when you're applying the brakes; unusual noises like grinding, squealing, or binding, which can indicate worn parts or misalignment; and overheating, which shows the brakes are dragging or are overworked and could fail soon. If you observe any of these signs, stop and have maintenance inspect and service the braking system before continuing. These checks are essential because braking performance directly affects control of the load and overall safety during 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:

<https://introtomobilecranes.examzify.com>

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

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