SLTC CRANE WEEK 1 PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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.

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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!

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Questions

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1. When making a lift the center of gravity of the load should be directly under the?

A. Hook Point

B. Base Of Crane

C. Mast

D. Boom Tip

2. How does lifting capacity respond as the boom length changes?

A. It Changes Dynamically

B. It Remains Constant

C. It Always Increases

D. It Always Decreases

3. The boom is sometimes extended by adding a...?

A. Cable

B. Jib or a fly

C. Boom extension

D. Extendable pole

4. Which precaution protects workers during overhead lifts?

A. Wear earplugs only.

B. Establish exclusion zones, barriers, one-way flow, and ensure only authorized personnel are present.

C. Remove all PPE to speed up clearance.

D. Operate at maximum speed.

5. During a post-lift review, which activity is expected?

A. Disassemble the crane immediately.

B. Schedule a follow-up safety meeting.

C. Debrief the crew to discuss what went well and what could be improved.

D. Ignore issues.

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6. Which term describes the four areas of the crane's working circle?

A. Zones

B. Regions

C. Quadrants

D. Sectors

7. Hydraulic Boom sections should be extended how?

A. To maximum length

B. By operator preference

C. Based on weather

D. Per Manufacturer Specifications

8. Which session is specifically held to confirm hazard controls and ensure all team members understand the lift procedures?

A. Post-lift review.

B. Pre-lift conference.

C. Daily toolbox talk.

D. Equipment inspection.

9. What is the first concern of the operator?

A. Productivity

B. Safety

C. Schedule

D. Cost

10. What measure is recommended when handling a load with sharp edges to prevent damage to slings and surface?

A. Using metal hooks directly on sharp edges.

B. Wrap the load with foam tape.

C. Ignore sharp edges.

D. Edge protection (pads) and ensuring slings are rated for the load.

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Answers

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

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Explanations

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1. When making a lift the center of gravity of the load should be directly under the?

A. Hook Point

B. Base Of Crane

C. Mast

D. Boom Tip

Keep the load's weight aligned with the lifting line by having its center of gravity directly under the end of the boom where the hoist line attaches. When the CG sits under the boom tip, the weight acts straight downward along the hoist line, so there are minimal horizontal forces and the crane remains stable while lifting and moving the load. If the CG were not under the boom tip, the lifting line would pull at an angle, creating side loads and a tipping tendency, which increases swing, makes control harder, and raises the risk of instability. The hook point, mast, or base don't provide the same effective alignment reference for the lifting force as the boom tip does, so keeping the CG under the boom tip is the best practice.

2. How does lifting capacity respond as the boom length changes?

A. It Changes Dynamically

B. It Remains Constant

C. It Always Increases

D. It Always Decreases

Lifting capacity isn't a fixed number; it depends on the crane's configuration. The reach of the boom changes the leverage the crane has against the load. When you extend the boom to reach farther, the load moment (the turning effect of the weight at that distance) increases, so the safe load you can lift decreases. When you shorten the reach, the moment is smaller and a heavier load can be lifted safely. Because many factors come into play—outriggers setup, counterweight, jib or attachment, wind, and the crane's specific load chart—the allowable load varies with each change in boom length and overall geometry. That variability is why lifting capacity responds dynamically as the boom length changes. Operators use the load chart to know the exact safe load for each configuration.

3. The boom is sometimes extended by adding a...?

A. Cable

B. Jib or a fly

C. Boom extension

D. Extendable pole

The idea being tested is the terminology for increasing a crane's reach. The boom is sometimes extended by adding a jib, also called a fly. The jib attaches at the end of the main boom and projects further outward, giving a greater working radius without making the main boom itself longer. A cable is used to lift the load, not to extend reach. A boom extension is a less specific term, whereas the standard term taught is jib (or fly jib). An extendable pole isn't the typical crane terminology for this purpose.

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4. Which precaution protects workers during overhead lifts?

A. Wear earplugs only.

B. Establish exclusion zones, barriers, one-way flow, and ensure only authorized personnel are present.

C. Remove all PPE to speed up clearance.

D. Operate at maximum speed.

During overhead lifts, controlling the work area is essential to protect workers. Establishing exclusion zones, barriers, a one-way flow, and ensuring only authorized personnel are present creates a safe buffer around the lifting area. This reduces the chance of someone being struck by a moving or suspended load and helps keep coordination clear between operators and spotters. Hearing protection by itself doesn't address the live hazard of a load overhead, and removing PPE or rushing the lift only increases risk. The best approach is to tightly control who and what can enter the lift zone, keeping everyone informed and out of danger while the lift is underway.

5. During a post-lift review, which activity is expected?

A. Disassemble the crane immediately.

B. Schedule a follow-up safety meeting.

C. Debrief the crew to discuss what went well and what could be improved.

D. Ignore issues.

After a lift, the key activity is to debrief the crew to discuss what went well and what could be improved. This immediate conversation helps capture practical feedback from everyone involved, reinforces safe practices, and identifies concrete changes to procedures, communication, or coordination for future lifts. It supports learning, continuous improvement, and a safer operating culture by turning experiences into actionable adjustments. Disassembling the crane right away misses the chance to learn from the operation. Ignoring issues is unsafe and counterproductive. A follow-up safety meeting may be useful later, but it doesn't replace the timely, on-site debrief that gathers fresh insights while memories are still clear.

6. Which term describes the four areas of the crane's working circle?

A. Zones

B. Regions

C. Quadrants

D. Sectors

Dividing the crane's working circle into four quadrants uses two perpendicular lines through the crane to split the circle into four equal 90-degree sections. This naming lets you describe a load's position quickly, like front-left, front-right, rear-left, and rear-right, covering all directions around the crane. It also supports safety planning, since each quadrant can have specific considerations for travel paths, clearance, and setup relative to the crane. Other terms can describe parts of an area, but they don't inherently signal four equal parts of a circle the way quadrants do. Quadrants specifically denote these four equal sectors formed by the crossing axes at the center.

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7. Hydraulic Boom sections should be extended how?

A. To maximum length

B. By operator preference

C. Based on weather

D. Per Manufacturer Specifications

Extending hydraulic boom sections must be done exactly as the manufacturer specifies. Each additional section changes the crane's geometry and reduces its lifting capacity, so the safe reach and load you can handle are determined by the published load charts for that particular crane configuration. Following the manufacturer's specifications ensures you stay within tested and approved limits, helping prevent tipping, overloading, or structural or hydraulic stress. Weather or operator preference don't set safe extension lengths; they might influence decisions about wind or weather impact, but the official limits come from the manufacturer. Always extend only to the lengths allowed by the spec, and base the extension on the current setup, load, radius, and the appropriate load chart, with proper outriggers and ballast as required.

8. Which session is specifically held to confirm hazard controls and ensure all team members understand the lift procedures?

A. Post-lift review.

B. Pre-lift conference.

C. Daily toolbox talk.

D. Equipment inspection.

Before a lift, the team uses a pre-lift conference to confirm hazard controls and ensure everyone understands the lift procedures. This focused session brings the crew together to review the lift plan, assign roles, confirm signaling and communication methods, check rigging and load details, and discuss contingency actions. By clarifying responsibilities and potential hazards upfront, it reduces miscommunication and builds a shared safety plan. Post-lift reviews occur after the lift to evaluate performance, daily toolbox talks cover general safety topics, and equipment inspection focuses on the crane and gear condition rather than the specific lift procedures.

9. What is the first concern of the operator?

A. Productivity

B. Safety

C. Schedule

D. Cost

Safety takes priority because what you do with a crane directly affects people's lives and the equipment's condition. Before any lift, the operator verifies the work area is clear, checks that the load weight and rigging are correct, ensures the crane is set up on stable ground, and confirms clear communication with the signalperson and all nearby workers. If safety conditions aren't in place, proceeding can lead to serious injuries or fatalities, crane tipping, dropped loads, or damaged gear, all of which halt work and drive up delays and costs. Once safety is secured, other goals like productivity, meeting a schedule, or managing costs can be pursued using safe procedures. But they should never supersede safety.

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10. What measure is recommended when handling a load with sharp edges to prevent damage to slings and surface?

A. Using metal hooks directly on sharp edges.

B. Wrap the load with foam tape.

C. Ignore sharp edges.

D. Edge protection (pads) and ensuring slings are rated for the load.

When handling a load with sharp edges, you protect the contact area and use slings that are rated for the load. Edge protection pads or guards cushion the edge and spread the force, preventing abrasion and cuts on the sling and reducing the risk of sling failure. At the same time, choosing slings that are rated for the load ensures the sling's strength matches the weight and geometry of the lift, including any angle effects. Using metal hooks directly on sharp edges or just wrapping with foam tape can fail to stop edge damage and can be unsafe, and ignoring sharp edges is obviously hazardous. The best practice is edge protection combined with ensuring the sling is properly rated for the load.

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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://sltccraneweek1.examzify.com

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

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