

RED SEAL STUDY GUIDE MOBILE CRANE OPERATOR YEAR 4

**25 EXAM PREP QUESTIONS
WITH ANSWERS**



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UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Mobile Crane Operator.

Ready to dive into the world of Mobile Crane Operator? Meet your ultimate companion – the Red Seal Study Guide for Mobile Crane Operator. This practical booklet is your go-to practice tool to conquer your Mobile Crane Operator exam.

Presented in an easy Q&A format, this guide lets you preview the kinds of questions you'll tackle on the real exam day. Consider it a sneak peek into what's coming your way!

Inside its pages, you'll find a treasure trove of Mobile Crane Operator essentials. It's more than just answering questions – it's about truly grasping the basics of Mobile Crane Operator in a way that sticks. Whether you're starting fresh or aiming to refine your skills, this guide has got you covered.

So, get set to challenge yourself, learn in a breeze, and build up your Mobile Crane Operator expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Mobile Crane Operator.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca
Mobile Crane Operator success starts here – dive in!



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Mobile Crane Operator is a reference tool meant to enhance your exam preparation. It offers insights into potential question formats. However, it's vital to know that this guide should complement, not replace, official government-issued study materials.

For comprehensive readiness, we recommend using both this guide and official resources provided by relevant authorities. Please note that this guide covers exams across Canadian provinces, but slight content variations might exist.

For your best chance at success, ensure a well-rounded preparation approach that includes official materials.

Good luck on your path to becoming a certified Mobile Crane Operator!

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Let's craft your future together!



1. A strategy is required for personnel platform operation.

- A: Lift
- B: Right
- C: Short
- D: Road

2. Rigging hardware design consideration for raising a hanging personnel platform:

- A: 10 to 1
- B: 5 to 1
- C: 2 to 1
- D: 7 to 1

3. Arriving at the site requires shift checks. before the shift ends.

- A: Small reel drum on boom base
- B: Auxiliary lift
- C: Before time
- D: Before the shift

4. How many safety turns (wraps) must the hoist drum have at its lowest load hook position?

- A: 2
- B: 3
- C: 1
- D: 0

5. Allows for the rotation of the boom

- A: Pump
- B: Rotex gear
- D: Motor
- C: Jib

See answers on the next page.



1. ☒ A ☐ B ☐ C ☐ D

Note: _____

2. ☐ A ☒ B ☐ C ☐ D

Note: _____

3. ☐ A ☐ B ☐ C ☒ D

Note: _____

4. ☐ A ☒ B ☐ C ☐ D

Note: _____

5. ☐ A ☒ B ☐ C ☐ D

Note: _____



6. Exceeding the crane's capacity occasionally won't harm the equipment or the operator.

A: True

B: False

7. Untight blocking may fail _____ of the design.

A: 25% design

B: 50% design

C: 30% design

D: 55% design

8. The lower section of a crawler crane below the slewing gear is called what?

A: Track frame

B: Axle

C: Carrier

D: Crane hauler

9. When operational aid readouts conflict with crane load chart ratings, operational aid figures take precedence.

A: True

B: False

10. The maximum included angle allowed when attaching slings directly to the hook is

A: 180°

B: 60°

C: 90°

D: 120°

See answers on the next page.



6. ☐ A ☒ B

Note: _____

7. ☐ A ☒ B ☐ C ☐ D

Note: _____

8. ☒ A ☐ B ☐ C ☐ D

Note: _____

9. ☐ A ☒ B

Note: _____

10. ☐ A ☐ B ☒ C ☐ D

Note: _____



11. Most manufacturers require crane load chart capacity to be lowered on duty cycle:

- A: 30%
- B: 10%
- C: 20%
- D: 15%

12. The distance to stop wheel-mounted cranes at 15 mph is:

- A: 64 ft
- B: 15 ft
- C: 50
- D: 32 ft

13. How much angle can be included with two slings in a shackle bowl?

- A: 120 degrees
- B: 45 degrees
- C: 60°
- D: 90°

14. When verifying the accuracy of the load limiting device, the test load must be what percentage of the applicable rating as recommended by the manufacturer

- A: 100% to 105%
- B: 105% to 110%
- C: 102.5% to 110%
- D: 95% to 98%

15. To lift loads, cranes use simple principles of?

- A: Leverage
- B: Flotation
- C: Gravity
- D: Resistance

See answers on the next page.



11. ☐ A ☐ B ☒ C ☐ D

Note: _____

12. ☐ A ☒ B ☐ C ☐ D

Note: _____

13. ☒ A ☐ B ☐ C ☐ D

Note: _____

14. ☐ A ☐ B ☒ C ☐ D

Note: _____

15. ☒ A ☐ B ☐ C ☐ D

Note: _____



16. Load hoist rotation-resistant wire rope has a design factor of:

- A: 3.5 to 1
- B: 5 to 1
- C: 3 to 1
- D: 5 to 1

17. Power is transferred to the swinging through a:

- A: Crank gear
- B: Bevel gear
- C: Pinion gear
- D: Pedal gear

18. Jib capacity rises with decreasing ground angle.

- A: True
- B: False

19. Cranes must be derated while lifting suspended personal platforms:

- A: 40%
- B: 30%
- C: 20%
- D: 50%

20. Avoid fiber core wire ropes at temperatures above:

- A: 235 °
- B: 185 °
- C: 225 °
- D: 180 °

See answers on the next page.



16. ☐ A ☒ B ☐ C ☐ D

Note: _____

17. ☐ A ☐ B ☒ C ☐ D

Note: _____

18. ☐ A ☒ B

Note: _____

19. ☐ A ☐ B ☐ C ☒ D

Note: _____

20. ☐ A ☐ B ☐ C ☒ D

Note: _____



21. Boom radius may depend on load dimensions as well as weight.

- A: True
- B: False

22. Tightening tension should be given to:

- A: Shaft
- B: Washer
- C: Nut
- D: Bolt

23. A hydraulic lift is fixed to the sliding ram crown, where the weight is carried.

- A: Cage
- B: Pulleys
- C: Wire rope
- D: Jiggers

24. Personnel platform (man basket) should not be used when wind speed exceeds

- A: 32 mph
- B: 20 mph
- C: 15 mph
- D: 10 mph

25. Cranes must be used on rubber or with fully extended outriggers unless they are intended for an intermediate position and have a matching chart.

- A: False
- B: True



21. ☒ A ☐ B

Note: _____

22. ☐ A ☐ B ☒ C ☐ D

Note: _____

23. ☒ A ☐ B ☐ C ☐ D

Note: _____

24. ☐ A ☐ B ☒ C ☐ D

Note: _____

25. ☐ A ☒ B

Note: _____



- 1). (A) (B) (C) (D)
- 2). (A) (B) (C) (D)
- 3). (A) (B) (C) (D)
- 4). (A) (B) (C) (D)
- 5). (A) (B) (C) (D)
- 6). (A) (B) (C) (D)
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- 20). (A) (B) (C) (D)
- 21). (A) (B) (C) (D)
- 22). (A) (B) (C) (D)
- 23). (A) (B) (C) (D)
- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)





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