

RED SEAL STUDY GUIDE TOWER CRANE OPERATOR YEAR 2

SAMPLE
25 EXAM PREP QUESTIONS
WITH ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

RedSealStudyGuide.ca

UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Tower Crane Operator.

Ready to dive into the world of Tower Crane Operator? Meet your ultimate companion – the Red Seal Study Guide for Tower Crane Operator. This practical booklet is your go-to practice tool to conquer your Tower 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 Tower Crane Operator essentials. It's more than just answering questions – it's about truly grasping the basics of Tower 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 Tower Crane Operator expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Tower Crane Operator.

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



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Tower 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 Tower Crane Operator!

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Let's craft your future together!



1. When raising a cargo, where should a crane's gantry be?

- A: Retracted position
- B: Mid-position
- C: Third position
- D: Highest position

2. Outrigger tire clearance?

- A: Two inches
- B: Four inches
- C: One inches
- D: Three inches

3. What does the load indicator measure?

- A: Boom length
- B: Radius, boom tip height, boom angle
- C: Real load
- D: Boom angle

4. What does not cause Two blockings?

- A: Lowering the boom
- B: Extending boom
- C: Boom retraction
- D: Lifting the load

5. Immediately visible breakage in an overloaded crane will indicate structural failure.

- A: False
- B: True

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. Avoid fiber core wire ropes at temperatures above:

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

7. The weight of any lifting device attached to a crane hook must be part of the load

- A: True
- B: False

8. How often should a qualified person test crane control?

- A: Each shift
- B: Monthly
- C: Daily
- D: Weekly

9. Who prepares the crane site?

- A: A lift director
- B: A crane operator
- C: Site supervisor
- D: The crane owner

10. What is the ratio of vertical basket hitch capacity to vertical hitch capacity?

- A: 175 %
- B: 45 %
- C: 200 %
- D: 145 %

See answers on the next page.



6. ☐ A ☒ B ☐ C ☐ D

Note: _____

7. ☒ A ☐ B ☐ C ☐ D

Note: _____

8. ☒ A ☐ B ☐ C ☐ D

Note: _____

9. ☐ A ☐ B ☒ C ☐ D

Note: _____

10. ☐ A ☐ B ☒ C ☐ D

Note: _____



11. Part of the crawler crane below the slewing gear is called?

- A: Axle
- B: Carrier
- C: Crane Hauler
- D: Track frame

12. Which of these is most like CSA standards?

- A: Guidelines
- B: Acts
- C: Regulations
- D: Enforcements

13. The action of various boom angle

- A: Derricking
- B: Slewing
- C: Telescoping
- D: Retracting

14. Which is not an industrial crane?

- A: Jib
- B: Barrel
- C: Boom
- D: Overhead

15. After three months of idleness, what inspection criteria would be utilized to put a crane back in service?

- A: Periodic
- B: Frequent
- C: Routine
- D: Initial

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. Computerized load movement indicators alert operators to overloads.

A: True

B: False

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

A: False

B: True

18. A "critical" lift surpasses the rated capacity of the crane or derrick or requires multiple cranes or derricks:

A: 50%

B: 100%

C: 75%

D: 125%

19. Distance between open excavation & position stabilizer?

A: 9 ft

B: 7 ft

C: 6 ft

D: 8 ft

20. 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

See answers on the next page.



16. ☒ A ☐ B ☐ C ☐ D

Note: _____

17. ☒ A ☐ B ☐ C ☐ D

Note: _____

18. ☐ A ☐ B ☒ C ☐ D

Note: _____

19. ☐ A ☐ B ☐ C ☒ D

Note: _____

20. ☐ A ☒ B ☐ C ☐ D

Note: _____



21. How much should tandem lift crane capacity be derated?

- A: 75%
- B: 85%
- C: 50%
- D: 25%

22. Check this statement's truth. If a crane swings within a power transmission line's approach limit, a signal person is needed.

- A: True
- B: False

23. Which load chart weight word includes the main block, rigging hardware, load, and jib and hook?

- A: Net Loads
- B: Gross loads

24. Crane booms can rest on building edges while dropping loads to roofs.

- A: True
- B: False

25. A crane sitting 3 degrees off level with a minimum radius boom can increase boom stress by around

- A: False
- B: True



21. ☐ A ☐ B ☐ C ☒ D

Note: _____

22. ☒ A ☐ B ☐ C ☐ D

Note: _____

23. ☐ A ☒ B ☐ C ☐ D

Note: _____

24. ☐ A ☒ B ☐ C ☐ D

Note: _____

25. ☐ A ☒ B ☐ C ☐ D

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)
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- 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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