

RED SEAL STUDY GUIDE TOWER CRANE OPERATOR YEAR 3

**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. Head protection is needed for loads over 5 feet tall.

- A: False
- B: True

2. Verify this statement. High-voltage power wires cannot cause electrical accidents unless the crane or load impacts them.

- A: False
- B: True

3. The tightening torque values placed on the nuts and bolts of high-tensile bolt Connection is dependent on the:

- A: Type and Size
- B: Weight
- C: Shape
- D: Color

4. Crawler brakes or locks must engage when the control lever is returned to neutral.

- A: Applied automatically on 10% slopes or steeper
- B: Apply in the event of loss of power pressure
- C: If working pressure or electricity is lost
- D: Hold a crane with the entire counterweight and load on a 10% slope

5. Check this statement's truth. Any company-made crane component works on another.

- 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. Outrigger floats should be about much larger than pads.

- A: 2 times
- B: 3 times
- C: 1.5 times
- D: Same

7. Most manufacturers require duty cycle work at what load chart capacity?

- A: Nothing
- B: 80%
- C: 85%
- D: 90%

8. What does the R.C.L. tell the crane operator?

- A: Load length
- B: Radius length
- C: Hook capacity
- D: The swing-away length

9. What should an operator do to avoid two blockages when telescoping?

- A: Hoist line payout
- B: Raise it
- C: Raise up
- D: Boom down

10. Is this statement true or false? Computerized Load Moment Indicators are approved by crane manufacturers and safety requirements for quick, uncomplicated load weight checks.

- A: False
- B: True

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. It is not recommended to use slings below a ____ angle.

- A: 60 °
- B: 35 °
- C: 45 °
- D: 30 °

12. What does a signal person mean by giving a flat palm above a hoist signal?

- A: Lift gently
- B: Telescope slow
- C: Hoist slowly
- D: Rise slowly

13. 700 kg = how many lbs?

- A: 1510
- B: 1520
- C: 1540
- D: 1530

14. Verify this statement. The manufacturer must only verify operational aid accuracy every six months after programming.

- A: True
- B: False

15. You have just inspected your crane and you have found what is referred to as a Bird-cage, where on the crane did you find it?

- A: The sheave
- B: The hook
- C: The bridge
- D: Rope

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. Check this statement's truth. Most cranes can securely run the jib and boom hoists concurrently.

A: False

B: True

17. Verify this statement. Tandem lifts require both cranes to lift the cargo simultaneously.

A: False

B: True

18. Verify this statement. The operator can only accept one signal but must heed any stop signal.

A: True

B: False

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

A: 30%

B: 20%

C: 15%

D: 10%

20. If you do not know the voltage level of a power line, what is the required clearance When working near power lines over 350kV?

A: 20 ft

B: 50 ft

C: 60 ft

D: 35 ft

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. Crane ground pressure can approach:

- A: 30% of the crane's weight and suspended load
- B: 70% of crane and suspended load weight
- C: Crane weight plus a hanging load
- D: 50% of crane weight in suspended load

22. What wouldn't lubricate wire rope?

- A: Automobile oil used
- B: Spray lubricant
- C: Hydraulic oil
- D: Motor oil

23. If not in use?

- A: Swing away jib is raised
- B: Stop moving until communication returns
- C: Leave the machine
- D: Check the load

24. Any personnel platform (man basket) lift must be considered a lift?

- A: Night
- B: Easy
- C: Routine
- D: Critical

25. Make all hooks safety latches.

- A: True
- B: False



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)
- 6). (A) (B) (C) (D)
- 7). (A) (B) (C) (D)
- 8). (A) (B) (C) (D)
- 9). (A) (B) (C) (D)
- 10). (A) (B) (C) (D)
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- 13). (A) (B) (C) (D)
- 14). (A) (B) (C) (D)
- 15). (A) (B) (C) (D)
- 16). (A) (B) (C) (D)
- 17). (A) (B) (C) (D)
- 18). (A) (B) (C) (D)
- 19). (A) (B) (C) (D)
- 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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