

RED SEAL STUDY GUIDE TOWER CRANE OPERATOR YEAR 1

**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!

For more information, tips, and resources,
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Let's craft your future together!



1. If you can't see an outrigger from the upper cab, what should you do?

- A: Keep a spotter watchful
- B: Swing the crane to see the outrigger
- C: Walk around to find yourself
- D: Rapidly extend it

2. Who assigns the signal person?

- A: Crane operator
- B: Lift director
- C: Supervisor
- D: Rigger

3. The far-left lever of most telescopic cranes is:

- A: Boom up
- B: Boom expands
- C: Boom down
- D: Boom swing

4. What allows boom rotation?

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

5. The overhead crane bottom block is crucial. Which another component connects to the bottom block directly?

- A: Limit switch
- B: Sheaves, Hook
- C: Hook
- D: Sheaves

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. In hydraulics, variable displacement pumps create pressure.

- A: Gear Pump
- B: Fixed Pump
- C: Motor Pump
- A: Stationary Pump

7. How many lbs is 200 kg?

- A: 335
- B: 220
- C: 225
- D: 440

8. Whether true or false. If the crane hits a power line, the operator should leave the cab immediately.

- A: True
- B: False

9. What is the lift configuration part?

- A: Outrigger
- B: Part of the line
- C: Jib stowed
- D: Attachment

10. Does personnel platform operation require a plan?

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

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. Boom and pendent stretch deflection will rise.

- A: Stable crane
- B: Weight of boom
- C: Weight of load
- D: Load Area

12. What is the minimum sling angle for personnel man baskets?

- A: 30 degrees
- B: 45 degrees
- C: 50 degrees
- D: 60 degrees

13. Boom and pendent stretch deflections will rise:

- A: Crane stability
- B: Boom weight
- C: Load radius
- D: Weight load

14. Only hoists with backup limit switches can employ the higher limit switch as a stop.

- A: True
- B: False

15. It is not suggested to use slings below an angle.

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

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. The Idle period of lift is defined as the difference between the total time taken for one operation and the _____ of the lift.

- A: Stationary period
- B: Lazy era
- C: Active period
- D: Working time

17. Should cranes be positioned to minimize movement during tandem lifts?

- A: Boom
- B: Operator
- C: Hoist
- D: Swing

18. What is the design/safety factor for 19x19 rotation-resistant wire rope lifting a personnel platform?

- A: 3.5–1
- B: 5.0–1
- C: 10.0–1
- D: 7.0–1

19. In what gear may a tower crane hoist gear be shifted?

- A: Second gear
- B: Neutral gear
- C: Third gear
- D: First gear

20. Does a crane inspection not need to check fluid levels for acceptable limits?

- A: True
- B: False

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 is a hoist wire rope fastened to a boom or jib head via tip and hook sheaves?

- A: Beeb
- B: Knowledge
- C: Reeved
- D: Lifting

22. Check this statement's truth. The counterweight is mounted after the boom is installed during crane assembly.

- A: True
- B: False

23. Crane weight capacity must be known before lifting a load.

- A: False
- B: True

24. Hydraulic lifts use two sorts of pulleys:

- A: Moveable
- B: Semi-Moveable, Movable
- C: Fixed-Movable
- D: Fixed

25. Top Running Overhead Cranes run on two parallel runway beams over your head.

- 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)
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- 22). (A) (B) (C) (D)
- 23). (A) (B) (C) (D)
- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)





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