

# RED SEAL STUDY GUIDE TOWER CRANE OPERATOR YEAR 4

**25 EXAM PREP QUESTIONS  
WITH ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

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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](http://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,  
head over to [www.RedSealStudyGuide.ca](http://www.RedSealStudyGuide.ca)  
Let's craft your future together!



**1. Should the maximum load on the personnel platform (man basket) exceed?**

- A: 500 KG
- B: 500 LBS
- C: 300 LBS
- D: 250 LBS

**2. Determine if this statement is true or false. A crane sitting 3 degrees off-level with Boom at minimum radius, can have an increase in boom stress of approximately 50%.**

- A: True
- B: False

**3. Verify this statement. The crane is always set up to specification, so the load chart is not needed to establish the number of main load block line pieces needed to lift a load.**

- A: False
- B: True

**4. Who inspects machinery and equipment before use?**

- A: Skilled mechanic
- B: Supervisor
- C: Foreman
- D: Competent person

**5. Who places the weight when a crane operator lifts beneath a signal person?**

- A: Both the crane operator and signal person
- B: The signalist
- C: The boss
- D: The operator

See answers on the next page.



1. ☐ A ☒ B ☐ C ☐ D

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2. ☒ A ☐ B ☐ C ☐ D

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**6. What sort of load determines load chart capacities?**

- A: Gross
- B: Net
- C: Dynamic
- D: Static

**7. A signal person wants the operator to do what hand signal with his arm extended, thumbs up, and index fingers opening and closing?**

- A: Increase and decrease load
- B: Hold the burden with boom
- C: Raise it
- D: Cable down, boom up

**8. How many broken wires and connections must a standing wire rope be removed?**

- A: 4
- B: More than 1
- C: over 2
- D: 1

**9. is coupled to the cylindrical chamber that slides up or down.**

- A: Jiggers
- B: Pulley
- C: Sliding Ram
- D: Crown capacity decrease

**10. What is the effect of reducing the boom length without changing the boom angle?**

- A: Lift radius and capacity increase, Stability reduces
- B: Stability and capacity reduce, lift Radius increase
- C: Lift radius increases, stability and Capacity reduce
- D: Lift radius decreases stability and capacity increase

See answers on the next page.



6. ☐ A ☐ B ☐ C ☒ D

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**11. The correct boom angle indicator calibration is:**

- A: Calling the company mechanic
- B: Raise the boom to horizontal and set the indication to 0C.
- C: Use slide rules
- D: boom against stops and set indicator to 90

**12. If fumes, vapors, sprays, or liquids are present, do not use polyester or polypropylene web slings.**

- A: Phenolics
- B: Acids
- C: Oil
- D: Caustics

**13. Any simultaneous crane lifts called?**

- A: Straight lift
- B: Tandem lift
- C: Practical lift
- D: Lift night

**14. A load should be hoisted up as high off the ground as possible, and as close to the upper limit switch as possible, before traveling with the crane.**

- A: True
- B: False

**15. When performing tandem lift using cranes equipped with an outrigger, the outrigger must be used on?**

- A: All crane lifts
- B: Heavy lifts
- C: Ground not level
- D: Soft ground

See answers on the next page.



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**16. Telescopic crane hook and load do what when the boom retracts?**

- A: Speed up
- B: Not move
- C: Raise
- D: Lower

**17. Determine the truth of the statement. The quadrant of operation is featured on most mobile crane load charts.**

- A: False
- B: True

**18. True or false? The load line lowers automatically when extending a hydraulic boom to avoid blocks from striking the tip.**

- A: True
- B: False

**19. The total weight of the loaded personnel platform must not exceed what % of the crane's rated capacity when lifting personnel?**

- A: 75%
- B: 45%
- C: 85%
- D: 50%

**20. The effective weight of a stowed jib compared to an erected jib is:**

- A: More
- B: Double
- C: Average
- D: Less

See answers on the next page.



16. ☐ A ☐ B ☐ C ☒ D

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**21. A repaired crane's load test shall not exceed what % of the manufacturer's crane rating?**

- A: 85%
- B: 75%
- C: 100%
- D: 110%

**22. Which of the following is not necessary for a normal fire?**

- A: Heat
- B: Fuel
- C: Hydrogen
- D: Oxygen

**23. The rooster or auxiliary boom point sheave's main purpose is:**

- A: Heighten the boom
- B: Reduce load radius
- C: Separate hoist lines
- D: enhance load radius

**24. Non-rotation-resistant load hoist ropes must have a design factor of:**

- A: 3.5-1
- B: 5-1
- C: 3-1
- D: 2.5-1

**25. How many working men can be in personnel man basket?**

- A: 5
- B: 6
- C: 2
- D: 3



21. ☐ A ☐ B ☐ C ☒ D

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