

# RED SEAL STUDY GUIDE TRUCK TRAILER SERVICE TECHNICIAN YEAR 4

**25 EXAM PREP QUESTIONS  
WITH ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

[RedSealStudyGuide.ca](http://RedSealStudyGuide.ca)

UNITY CREST SOLUTIONS INC.

# INTRODUCTION

## **Introducing the Red Seal Study Guide – Truck & Trailer Service Technician.**

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

Ready to get started? For more information, tips, and resources,



# DISCLAIMER



## **Study Guide Disclaimer: Important Notice**

The Red Seal Study Guide – Truck & Trailer Service Technician 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 Truck & Trailer Service Technician!

For more information, tips, and resources,  
head over to [www.RedSealStudyGuide.ca](http://www.RedSealStudyGuide.ca)  
Let's craft your future together!



**1. Which engine oil additive neutralizes acids?**

- A: Oxidation inhibitors
- B: Anticorrosion
- C: Antirust
- D: Detergent ingredients

**2. What physical transformation occurs during arc welding?**

- A: Color transfer
- B: Metal transfer
- C: Current transfer
- D: Heat transfer

**3. Maximum pressure of CRDI engine high-pressure diesel pump**

- A: 500 Kg/cm<sup>2</sup>
- B: 800 Kg/cm<sup>2</sup>
- C: 1600 Kg/cm<sup>2</sup>
- D: 2000 Kg/cm<sup>2</sup>

**4. What is LED expansion?**

- A: Light-emitting diodes
- B: Light elongation diodes
- C: Light electron diodes
- D: Limited electric data

**5. Which approach is most accurate for checking transmission shift points?**

- A: Test stand method
- B: Road test technique
- C: Main journal
- D: Engine speed (rpm) method speedometer

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. What controls Allison's automatic transmission main pressure?**

- A: Speed trimmer valve
- B: Transmission input
- C: Speed governor valve
- D: Transmission input

**7. Which powers the piston-crank lift?**

- A: Gudgeon pin
- B: Connecting rod
- C: Kingpin
- D: Camshaft

**8. The rotating shaft torques the wheel through which fastener?**

- A: Wire lock
- B: Key
- C: Washer
- D: Circlip

**9. Which better defines truck wet-line kit operation?**

- A: Water mechanics
- B: Hydrodynamics
- C: Hydrology
- D: Hydrostatic

**10. For appropriate power steering analyzer diagnosis, which of the following should be true?**

- A: Keep engine oil at working temperature
- B: The steering system needs new hydraulic oil
- C: Steering system hydraulic oil should be above 60°C
- D: Below 60°

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. Why does castor align wheels?**

- A: Steering torque to a voltage signal
- B: Reduce tire wear
- C: Reduce abnormal vibration
- D: Keep direction stable and controlled

**12. How high should a 12-volt gel cell battery be charged?**

- A: 12.6 V
- B: 12-volt
- C: 14.8 V
- D: 14.1 V

**13. Which term rates data bus transmission volume?**

- A: Bandwidth
- B: Arbitration
- C: Frequency
- D: K-baud

**14. What happens if a smart switch connector is disconnected?**

- A: Fault code logged
- B: Data bus shut down
- C: Default mode
- D: Functioning vehicle stops

**15. Which is true during torque converter coupling?**

- A: Maximum torque multiplication
- B: Impeller and turbine speeds are identical
- C: Impeller speed is slightly slower than turbine
- D: Impeller speed is slightly faster than turbine speed

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. Which engine employs EVAP?**

- A: The diesel engine
- B: LPG motor
- C: Petrol
- D: CNG engine

**17. What temperature should oil be at during an automatic transmission cold check?**

- A: 17 and 16
- B: 70 and 49
- C: 49 and 70
- D: 70 and 93

**18. What three ingredients must fire have to burn?**

- A: Heat/smoke/oxygen
- B: Fuel/heat/oxygen
- C: Oxygen/fuel/paper
- D: Smoke/fuel/oxygen

**19. Which emits less hazardous substances after catalytic conversion?**

- A: Pb + CO<sub>2</sub> + NO<sub>x</sub>
- B: NO<sub>x</sub> + Co<sub>2</sub> + Pm C:
- C: H<sub>2</sub>O + CO<sub>2</sub> + Nitrogen
- D: Co<sub>2</sub> + Hc + H<sub>2</sub>O

**20. What signals a data packet's end?**

- A: EOI
- B: EOF field
- C: CRC field
- D: Ack

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. Which device works as a hydraulic retarder?**

- A: A planetary gearset
- B: S-cam brake
- C: Hydraulic clutch
- D: Torque converter

**22. A hydraulic pump discharges the same slug volume per cycle, known as a**

- A: Negative cycle
- B: Stable displacement
- C: Changeable displacement
- D: Constant cycle

**23. Exhaust emission system DPF acronym?**

- A: DP filter
- B: DPF for diesel
- C: Diesel-pressure filter
- D: Diesel primary filter

**24. A flow-control valve's main function is which of the following?**

- A: Control circuit pressure
- B: Manage circuit resistance
- C: Switch circuit outcomes
- D: Regulate actuator speed.

**25. Starter motor solenoid switch type?**

- A: Thermal and
- B: Electromagnetic
- C: Mechanical
- D: Magnetic



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)
- 11). (A) (B) (C) (D)
- 12). (A) (B) (C) (D)
- 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)





Kris & Bobby Publications.