

RED SEAL STUDY GUIDE TRUCK TRAILER SERVICE TECHNICIAN 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 – 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
Let's craft your future together!



1. What motivates occupational health and safety?

- A: Lowering productivity
- B: Lowering Quality
- C: Lower employee morale
- D: Reduce absenteeism

2. What does a greater scrub radius affect?

- A: Front-wheel braking imbalance
- B: Point of steering linkage bend
- C: Wear in the tire center
- D: Tire outer edge wear

3. Which washer prevents nut loosening with stiff resistance?

- A: Spring-washer
- B: Tooth-locked washer
- C: Flat washer taper
- D: Gearbox

4. Which steering system helps when the engine is off?

- A: Steering manually
- B: Power steering linkage
- C: Integrated power steering
- D: E-power steering

5. Magnetic particle testing can test which components?

- A: Plastic parts
- B: Non-ferrous parts
- C: Ferrous parts
- D: Aluminum parts

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. Which gearbox eliminates gear wheels coming together on the shaft?

- A: Constant mesh gearbox
- B: Compound wheel mesh gearbox
- C: Sliding mesh gearbox
- D: Synchro gearbox

7. Which component links the Pitman arm to the steering control arm?

- A: Cross tube
- B: Drag link
- C: The steering column
- D: Tie-rod

8. How does battery discharge convert energy?

- A: Electricity to mechanical energy
- B: Energy from electricity to heat
- C: Chemical energy to electricity
- D: Electricity to chemical energy

9. A typical rotor has?

- A: Fourteen North-South poles
- B: 14 north and 14 south poles
- C: 2 poles, one north, and one south
- D: 7 North and South poles

10. Which gear has many teeth in contact?

- A: Helical rack
- B: Pinion gear
- C: Spur and spur
- D: Bevel gears

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. Which electronic device signals the IAC valve?

- A: Solenoids
- B: ECM
- C: SCV
- D: EDU

12. Where is the piston compression ring?

- A: Above piston oil ring
- B: Rod connecting piston pin to skirt bottom
- C: To manage rail axial rotation and longitudinal motion
- D: The piston between the oil ring and pin Piston skirt bottom

13. What is a diode's positive terminal?

- A: Electrode
- B: Emitter
- C: Cathode
- D: Anode

14. Calculate current flow in a series circuit with a 12V power source and 6 V total resistance using Ohm's Law.

- A: 2A
- B: 3A
- C: 4A
- D: 1.5A

15. What emission control method is used when gases enter an engine's intake manifold?

- A: Crankcase ventilation positive
- B: The catalytic convention
- C: A selective catalytic reduction
- D: Recirculating exhaust gas

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. Turbocharger location?

- A: Air cleaner
- B: Exhaust manifold
- C: Manifold intake
- D: Cylinder head

17. Which cooling systems cool slowly?

- A: Air-cooled system
- B: A forced feed system
- C: A pump circulation system
- D: System thermosiphon

18. Which system isn't electrical?

- A: Transmission method
- B: System steering
- C: Charger
- D: Suspension system

19. Why do alternator brushes last longer than DC generator brushes?

- A: They spin faster
- B: They spin slowly
- C: They conduct more current
- D: They conduct less current

20. What independent suspension system is simple and allows low front wheel deflection without affecting steering?

- A: Strut suspension
- B: Torque bar suspension
- C: Standard suspension
- D: Coil-spring suspension

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. Near-zero emission diesel engine: how?

- A: EGR/SCR combo
- B: PCV/EGR combo
- C: DPF/EGR combo
- D: PCV/3-way catalytic connection

22. An oil-overheating transmission passes a speed test. Which cause is more likely?

- A: Engine issue or freewheeling torque converter
- B: Stator issue in the engine
- C: Stalled torque converter stator
- D: Freewheeling torque converter stator

23. Why are fuel tank baffles added?

- A: To reinforce the fuel tank
- B: Make a long, square gasoline tank
- C: Minimize tank fuel cutting
- D: Make gasoline tank chambers

24. Where is the piston compression ring?

- A: Piston skirt compression ring bottom
- B: Piston compression ring above oil ring
- C: Compression ring between piston pin and skirt bottom
- D: Oil ring-piston pin compression ring

25. What record must the shop keep on interstate trucks?

- A: All service technician names out-of-service times
- B: Driver names
- C: Inspection types, and dates
- D: Time and Location



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)
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- 4). (A) (B) (C) (D)
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- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)





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