

RED SEAL STUDY GUIDE TRUCK TRAILER SERVICE TECHNICIAN YEAR 1

**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. Which device has three terminals?

- A: Capacitor
- B: Transistor
- C: Zener diode
- D: Piston

2. What kind of service equipment holds the hoisted car long-term?

- A: Hoist
- B: Arbour press
- C: Hydraulic
- D: Jack stand

3. What happens with poor brake adjustment?

- A: Car steering wheel play
- B: One-sided vehicle movement
- C: Wheel wobbling
- D: Hard steering

4. Which roller bearing use is best?

- A: Differential
- B: Flywheel rods
- C: Connect
- D: Gearboxes

5. What is the pot joint di fraction angle allowed?

- A: 20 Degree
- B: 22 Degree
- C: 26 Degree
- D: 18 Degree

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 is FET's role in a smart switch transaction?

- A: Signal filter
- B: Electrical noise suppression
- C: Relay or amp
- D: Transformer

7. Constant mesh gearbox advantages?

- A: Gear adjustment error won't affect the function
- B: Power transfer is smooth
- C: Efficient lubrication
- D: Quick gear change

8. Why is the wire color-coded?

- A: Current rating color
- B: Color indicates voltage
- C: Easily identify each circuit
- D: Refers to wire size

9. What could cause gear slip?

- A: Too much gear end float
- B: Incorrect clutch engagement
- C: A worn clutch plate
- D: Misplaced gearshift lever

10. Which lowering procedure best lubricates wheel bearings after a differential carrier overhaul?

- A: Remove axle shaft rubber plugs and fill to the specified oil level
- B: Raise the axle on each side for 1 minute, then check the fill hole level
- C: Connect the differential carrier to the interaxle hole
- D: Feed the differential carrier through the axle breather

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. What is the usual truck loading dock height?

- A: 1.22m
- B: 1.11m
- C: 1.35m
- D: 1.52m

12. Which torque converter statement is correct when compared to a fluid coupling?

- A: A torque converter has reduced torque transfer efficiency
- B: A torque converter can increase torque
- C: A torque converter increases fluid slippage
- D: Torque converters have straight impellers and turbine blades

13. What gas fills sealed beam headlights?

- A: Oxygen gas
- B: Argon gas
- C: Nitrogen gas
- D: Hydrogen gas

14. Which gear transforms rotary to linear and vice versa?

- A: Helical gearing
- B: Rack and Pinion
- C: Bevel gear
- D: Spur gear

15. Why avoid frequent battery carbon pile load testing?

- A: Due to strong gassing, it might create explosions
- B: It overworks the alternator
- C: Deep cycling shortens battery life
- D: Heats insulated circuit wiring

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. Tightening a cap screw or bolt beyond its torque value may result in:

- A: Reducing the amount of friction
- B: Permanent stretching or breakage
- C: Reducing the elasticity of the metal
- D: Increasing the elasticity of the metal

17. Which device can store electrical charge?

- A: Conductor
- B: Resistor
- C: Insulator
- D: Capacitor

18. A vehicle that travels lengthy distances between terminals is classed as

- A: LTL
- B: P&D
- C: Vocational
- D: Linehaul

19. Heavy-duty trucks employ which transmission geartrain layout most often?

- A: Double-planetary
- B: Single countershaft
- C: Triple countershaft
- D: Dual countershaft

20. Determine the power utilized in a 24V circuit that flows 3A.

- A: 74W
- B: 69W
- C: 70W
- D: 72W

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. R-134a boiling point?

- A: 20.5 C
- B: 27.8 C
- C: 26.5 C
- D: 22.0 C

22. What's the battery electrolyte mixture?

- A: HCl + distilled water
- B: Nitric acid+ distilled water
- C: Distilled water + hydrobromic acid
- D: Sulfuric acid + water

23. Why is oil usage high?

- A: Problems with gasoline
- B: Filter and pressure gauge
- C: Excess valve guide clearance
- D: Improper valve timing

24. The timing chain's purpose?

- A: Crank or camshaft gear connection
- B: Connect the A/C compressor
- C: Connecting alternator
- D: For the water pump connection

25. How are torque converters usually mounted to engine crankshafts?

- A: Lockup
- B: Flex plate
- C: Stator
- D: Turbine



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.