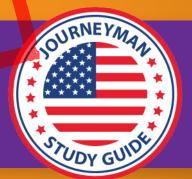
# JOURNEYMAN STUDY GUIDE TRANSPORT & COACH TECHNICIAN

YEARS

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



APPRENTICES I INSTRUCTORS I INSTITUTES

JourneymanStudyGuide.com

UNITY CREST SOLUTIONS INC.

#### Who Is Journeyman Study Guide For?

Welcome to *Journeyman Study Guide*—your key to unlocking success in your trade, earning the recognition you deserve, and building a solid career in America. Whether you're an apprentice just starting out, a seasoned professional, or someone new to the country and adjusting to U.S. trade standards, this guide is designed to complement your learning and support you along the way. While it provides valuable insights and resources, it's not a substitute for official materials required for certification.

#### **How We Help You Succeed**

- 1. Apprentices: Looking to kickstart your career? Our study guides and practice tests will help you build the foundational skills you need to succeed.
- 2. *Tradespeople*: New to the U.S. or advancing in your career? We offer detailed questions, answers, and explanations to help you understand industry standards and excel in your work.
- 3. *Instructors*: Need reliable teaching tools? Our question banks and online tests are great for guiding your students through trade concepts and preparing them for certification.
- 4. *Educational Institutions*: Looking for tailored materials? Our study guides, quizzes, and exams are designed to fit into your existing curriculum, offering valuable resources for students.
- 5. *Unions*: Searching for effective ways to train your members? Our easy-to-follow format ensures that each member gains the knowledge they need to thrive in their trade.

#### What Journeyman Study Guide Offers:

- 1. *Tailored Study Guides*: Access the core knowledge you need, whether you're preparing for your exam, familiarizing yourself with U.S. trade standards, or simply refining your trade skills.
- 2. *Real-World Practice Tests:* Simulate actual exam conditions with online tests that help you measure your progress and improve your job-ready skills.
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- 5. Additional Learning Resources: Dive into supplementary guides on topics like math, safety protocols, and management strategies that are valuable for both certification and long-term career growth.



#### **Tools for Your Success**

Each of these resources is crafted to ensure you're fully prepared for your Journeyman exam and ready to excel in your trade. From gaining core knowledge with our tailored study guides to testing your skills with real-world practice exams, we provide everything you need to boost your understanding. Our in-depth explanations clarify key concepts, while additional learning resources like math, safety, and management guides give you the tools to succeed in your career and continue growing as a tradesperson.

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#### Ready to Take the First Step Toward Success?

Don't let anything hold you back. Visit JourneymanStudyGuide.com to unlock the resources that will elevate your skills, boost your confidence, and secure the income and recognition you deserve. Whether you're an apprentice, a tradesperson, or an instructor, our online tests, questions and answers, and detailed explanations are designed to help you at every stage of your career. Remember, this guide is a tool to help you succeed—it works best when paired with hands-on learning and official materials.

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#### Why Journeyman Study Guide?

We're committed to making trade education *accessible*, *flexible*, *and affordable* to anyone in America. You don't need to worry about the high cost of learning—we believe nothing should stop you from earning top wages in your trade.

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We've helped thousands of tradespeople—apprentices, seasoned professionals, and those new to America—gain the confidence and skills needed to pass their exams and advance their careers.

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"The *online tests* in the Journeyman Study Guide were a game-changer. They gave me a clear sense of what to expect on the exam, and the *questions and answers* helped me focus on exactly what I needed to improve, especially in areas I had struggled with before."

Jessica Taylor, Apprentice Ironworker

"Journeyman's *questions, answers, and explanations* made it easier for me to understand the trade standards here in the U.S. The *detailed explanations* filled gaps in my knowledge and gave me the confidence to pass my exams."

Carlos Ramirez, Electrician, originally from Mexico

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John Davis, Union Welding Instructor

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This isn't just about reading and memorizing; it's about *preparing* you for real-world challenges. At Journeyman Study Guide, we've helped thousands of people pass their exams and advance their careers. But the truth is—success takes more than book smarts. Here's what you need to know:

- It's not easy: Becoming a certified journeyman requires hard work, patience, and a real dedication to learning. This guide will help you navigate the complexity, but the journey itself requires you to commit to the process. At the end, you'll not only have earned your certification but also be in a stronger position for long-term success in your career.
- 2. You will need to put in effort: Our practice tests, questions, and explanations are incredibly useful, but they can only get you so far without your own effort. You need to engage with the material and be prepared to revisit concepts to fully understand them. This preparation will also help you manage test anxiety and give you the tools to stay focused and confident when exam day comes.
- 3. It's hands-on: While this guide provides the foundational knowledge and key concepts, your true growth comes from hands-on experience in the trade. This guide is designed to complement that experience and help you feel more prepared on the job. By understanding the 'why' behind the work, you'll find yourself better equipped for both the exam and your everyday trade responsibilities.

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Before you dive into the resources, it's important to know that *Journeyman Study Guide* is a *helpful tool* designed to prepare you for your exam by offering practice questions, answers, and explanations similar to what you may encounter. However, *state requirements vary*, and this guide should be used *alongside official state or industry resources* to ensure you're fully prepared.



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# 

# **Year 3: Advanced Diagnostics and Specialized Systems**

# Subject 3. Specialized Maintenance for Long-Haul Trucks and Urban Buses

### 1. What is a common wear pattern?

- a) Tire irregularities
- b) Engine oil leakage
- c) Fuel filter clogging
- d) Brake pad thickness

**Correct Answer: a) Tire irregularities** 

**Explanation:** Tire irregularities often result from uneven weight distribution, improper alignment, or inadequate tire pressure. For Transport and Coach Technicians, recognizing these patterns is essential for ensuring long-haul trucks and urban buses operate efficiently, reducing wear and extending tire life, which ultimately leads to safer operations and lower maintenance costs.

# 2. What is the key aspect of maintenance schedules?

- a) Driver's habits
- b) Seasonal changes
- c) Time intervals
- d) Owner's preferences

**Correct Answer: c) Time intervals** 

**Explanation:** Maintenance schedules are primarily based on time intervals or mileage to ensure that critical components are serviced regularly. Transport and Coach Technicians must adhere to these schedules to prevent breakdowns, ensure safety, and extend the lifespan of long-haul trucks and city buses, ultimately improving service reliability and efficiency.

# 3. Which factor affects brake performance?

- a) Tire pressure
- b) Fuel type
- c) Engine temperature
- d) Brake fluid quality

**Correct Answer: d) Brake fluid quality** 

**Explanation:** The quality of brake fluid is crucial for maintaining effective brake performance. Contaminated or degraded brake fluid can cause brake failure or reduced responsiveness, which is critical for Transport and Coach Technicians to monitor in both long-haul trucks and urban buses to ensure passenger safety and vehicle reliability.



# 4. What can lead to engine overheating?

- a) High tire pressure
- b) Low coolant levels
- c) Dirty fuel injectors
- d) Worn brake pads

**Correct Answer: b) Low coolant levels** 

**Explanation:** Low coolant levels can cause the engine to overheat, which can lead to severe damage. Transport and Coach Technicians must routinely check coolant levels and the entire cooling system to prevent overheating in long-haul trucks and urban buses, ensuring optimal performance and reliability during operation.

# 5. What is a common issue with fuel injectors?

- a) Clogging
- b) Overheating
- c) High viscosity
- d) Low pressure

**Correct Answer: a) Clogging** 

**Explanation:** Fuel injector clogging is a frequent issue that affects engine performance and fuel efficiency. Transport and Coach Technicians need to clean or replace clogged injectors to maintain optimal fuel delivery in long-haul trucks and urban buses, ensuring efficient operation and reduced emissions, which is vital for compliance with environmental regulations.

# 6. What is the purpose of a pre-trip inspection?

- a) Enhance fuel efficiency
- b) Assess driver comfort
- c) Ensure safety compliance
- d) Improve aesthetics

**Correct Answer: c) Ensure safety compliance** 

**Explanation:** Pre-trip inspections are critical for ensuring that vehicles meet safety standards before operation. Transport and Coach Technicians must conduct thorough checks on long-haul trucks and city buses to identify potential issues that could compromise safety, thus protecting drivers, passengers, and other road users while minimizing the risk of breakdowns.



# 7. Which component is checked during tire maintenance?

- a) Engine oil level
- b) Fuel system integrity
- c) Tire tread depth
- d) Brake pad wear

Correct Answer: c) Tire tread depth

**Explanation:** Checking tire tread depth is essential for assessing tire wear and ensuring optimal traction. Transport and Coach Technicians should routinely measure tread depth on long-haul trucks and urban buses to prevent hydroplaning and maintain vehicle control, which is crucial for safe transportation and compliance with safety standards.

# 8. What causes suspension wear?

- a) Excessive idling
- b) Uneven weight distribution
- c) Low tire pressure
- d) High fuel consumption

Correct Answer: b) Uneven weight distribution

**Explanation:** Uneven weight distribution can lead to premature suspension wear, negatively affecting ride quality and handling. Transport and Coach Technicians must understand load distribution to maintain the suspension systems of long-haul trucks and urban buses, ensuring stability, passenger comfort, and prolonging the lifespan of suspension components.

# 9. What is a major factor in fuel efficiency?

- a) Tire condition
- b) Body style
- c) Driver behavior
- d) Engine type

Correct Answer: c) Driver behavior

**Explanation:** Driver behavior significantly impacts fuel efficiency, with aggressive driving leading to increased fuel consumption. Transport and Coach Technicians should educate drivers of long-haul trucks and urban buses on techniques such as smooth acceleration and maintaining steady speeds to optimize fuel usage, reduce costs, and lower environmental impact.



# 10. How often should oil changes occur?

- a) Every 15000 mi / 24140.1 km
- b) Every 7500 mi / 12070.05 km
- c) Every 10000 mi / 16093.4 km
- d) Every 3000 mi / 4828.02 km

Correct Answer: b) Every 7500 mi / 12070.05 km

**Explanation:** Oil changes are crucial for maintaining engine health, and the typical recommendation is every 7500 mi / 12070.05 km under normal driving conditions. Transport and Coach Technicians must follow the manufacturer's guidelines for long-haul trucks and urban buses to ensure proper lubrication, reduce wear, and enhance engine performance and longevity.

# 11. What is a common sign of transmission issues?

- a) Excessive fuel consumption
- b) Slipping gears
- c) Rough idling
- d) Engine sputtering

**Correct Answer: b) Slipping gears** 

**Explanation:** Slipping gears is a common indicator of transmission problems, which can lead to poor vehicle performance and safety hazards. Transport and Coach Technicians must diagnose and address these issues promptly in long-haul trucks and urban buses to maintain drivability and prevent costly repairs resulting from prolonged neglect.

#### 12. What maintenance is crucial for air brakes?

- a) Brake adjustment
- b) Oil change
- c) Coolant flush
- d) Tire rotation

**Correct Answer: a) Brake adjustment** 

**Explanation:** Regular brake adjustments are essential for air brake systems to ensure they function correctly and efficiently. Transport and Coach Technicians must perform these adjustments on long-haul trucks and urban buses to maintain optimal braking performance, enhance safety, and avoid premature wear of brake components, which can lead to accidents.



# 13. What is a potential issue with diesel engines?

- a) Oil contamination
- b) Exhaust leaks
- c) Air filter clogging
- d) Fuel system issues

Correct Answer: d) Fuel system issues

**Explanation:** Diesel engines can face fuel system issues, such as contamination or injector problems, affecting performance and efficiency. Transport and Coach Technicians must routinely inspect and maintain these systems in long-haul trucks and urban buses to ensure reliable operation and compliance with emission standards, thus enhancing vehicle longevity.

# 14. What can excessive idling cause?

- a) Lower emissions
- b) Increased fuel consumption
- c) Reduced tire wear
- d) Enhanced engine performance

Correct Answer: b) Increased fuel consumption

**Explanation:** Excessive idling can lead to increased fuel consumption, significantly impacting operational costs for long-haul trucks and urban buses. Transport and Coach Technicians should educate drivers about minimizing idle time to improve fuel efficiency, reduce wear on engine components, and contribute to a more environmentally friendly operation.

# 15. What is vital for maintaining battery life?

- a) Frequent charging
- b) High temperatures
- c) Regular cleaning
- d) Low usage

Correct Answer: c) Regular cleaning

**Explanation:** Regular cleaning of battery terminals is vital for maintaining battery life and performance. Transport and Coach Technicians must ensure that the batteries in long-haul trucks and urban buses are free from corrosion, as this can lead to poor electrical connections, starting issues, and ultimately, battery failure, impacting overall vehicle reliability.



#### 16. What can lead to excessive brake wear?

- a) Poor alignment
- b) Low tire pressure
- c) Uneven road conditions
- d) Driver overuse

Correct Answer: d) Driver overuse

**Explanation:** Driver overuse of brakes, such as frequent hard braking, can lead to excessive wear and reduced braking efficiency. Transport and Coach Technicians should train drivers of long-haul trucks and urban buses to adopt smoother driving techniques, which can help extend brake life and enhance overall vehicle safety.

# 17. What is a common challenge for urban buses?

- a) Long travel distances
- b) Frequent stops
- c) Poor visibility
- d) High fuel prices

**Correct Answer: b) Frequent stops** 

**Explanation:** Frequent stops in urban bus operations can lead to increased wear on components like brakes and tires due to constant acceleration and deceleration. Transport and Coach Technicians must consider these operational challenges when scheduling maintenance to ensure urban buses remain reliable and safe for passenger transport in busy city environments.

# 18. How can technicians identify suspension issues?

- a) Fuel gauge
- b) Engine noise
- c) Tire pressure
- d) Visual inspection

**Correct Answer: d) Visual inspection** 

**Explanation:** Visual inspection is a key method for identifying suspension issues, such as worn components or leaks in shock absorbers. Transport and Coach Technicians must regularly inspect the suspension systems of long-haul trucks and urban buses to ensure safety, comfort, and stability while driving, which are crucial for passenger satisfaction.



# 19. What is crucial for maintaining tire integrity?

- a) Tire pressure
- b) Regular rotation
- c) Color matching
- d) Seasonal changes

Correct Answer: a) Tire pressure

**Explanation:** Maintaining correct tire pressure is crucial for ensuring tire integrity, performance, and safety. Transport and Coach Technicians must regularly check and adjust tire pressure on long-haul trucks and urban buses to prevent blowouts, improve fuel efficiency, and ensure optimal handling, which are essential for safe operation.

# 20. What can cause electrical system issues?

- a) Excessive idling
- b) Corrosion
- c) Fuel contamination
- d) Low coolant

**Correct Answer: b) Corrosion** 

**Explanation:** Corrosion on electrical connections can lead to system failures, affecting various components in long-haul trucks and urban buses. Transport and Coach Technicians should routinely inspect and clean electrical systems to prevent such issues, ensuring reliable operation, improved safety, and preventing unexpected breakdowns during service.

# 21. What is essential for maintaining HVAC systems?

- a) Regular filter changes
- b) Tire rotations
- c) Engine oil checks
- d) Brake inspections

Correct Answer: a) Regular filter changes

**Explanation:** Regular filter changes are essential for maintaining HVAC systems, as clogged filters can reduce airflow and efficiency. Transport and Coach Technicians must ensure that the heating, ventilation, and air conditioning systems in long-haul trucks and urban buses are properly maintained to provide comfort for drivers and passengers, particularly in varying weather conditions.



#### 22. What can lead to fuel contamination?

- a) Low tire pressure
- b) Worn brake pads
- c) Dirty fuel tanks
- d) Excessive idling

Correct Answer: c) Dirty fuel tanks

**Explanation:** Dirty fuel tanks can introduce contaminants into the fuel system, affecting engine performance. Transport and Coach Technicians must regularly inspect and clean fuel tanks in long-haul trucks and urban buses to prevent fuel contamination, ensuring reliable operation and compliance with emissions standards, thereby enhancing vehicle longevity.

# 23. What is a sign of tire misalignment?

- a) High fuel efficiency
- b) Smooth ride
- c) Uneven tire wear
- d) Engine noise

Correct Answer: c) Uneven tire wear

**Explanation:** Uneven tire wear is a clear sign of tire misalignment, which can lead to handling issues and increased fuel consumption. Transport and Coach Technicians should regularly check and correct alignment in long-haul trucks and urban buses to ensure safety, enhance tire longevity, and reduce operational costs through better fuel efficiency.

#### 24. What is a major concern for long-haul trucks?

- a) High speeds
- b) Urban traffic
- c) Frequent stops
- d) Driver fatigue

**Correct Answer: d) Driver fatigue** 

**Explanation:** Driver fatigue is a significant concern for long-haul trucks, as it can lead to accidents and reduced operational efficiency. Transport and Coach Technicians must be aware of regulations regarding driver hours of service and promote safe driving practices to minimize fatigue, ensuring the safety of drivers and the public on the roads.



# 25. What can affect the lifespan of batteries?

- a) Temperature extremes
- b) Brake wear
- c) Fuel type
- d) Tire pressure

# **Correct Answer: a) Temperature extremes**

**Explanation:** Temperature extremes can significantly affect battery lifespan, with both high heat and extreme cold leading to reduced performance and capacity. Transport and Coach Technicians need to consider environmental factors when maintaining batteries in long-haul trucks and urban buses, ensuring optimal performance and reliability throughout varying weather conditions.





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#### **About the Creators:**

#### **Bobby Bedi:**

Bobby Bedi, co-creator of the Journeyman Study Guide, calls the Pacific Northwest home, where he has built an extensive career spanning more than two decades. His diverse background, which includes architecture, digital innovation, and industrial marketing, has given him a unique ability to bridge traditional industries with cutting-edge digital solutions. Bobby has worked across a spectrum of industries, from agile startups to publicly traded companies and educational platforms, bringing a depth of experience that has been crucial to the platform's success.

Bobby's precision and problem-solving skills, refined through his years in architecture, have seamlessly transitioned into his work in digital marketing and technology. Since 2006, Bobby has been at the forefront of digital innovation, applying his expertise to transform trade education. He has been instrumental in developing cutting-edge, user-friendly platforms that make learning accessible across the globe, combining technology with education to create impactful online experiences.

As co-creator of the platform, Bobby also plays a key role in the industrial sector, where he helps companies scale by leveraging his expertise in digital marketing and business strategy. His dedication to making education affordable and impactful has driven the growth of the Journeyman Study Guide, ensuring that individuals at every stage of their careers have access to quality learning tools.

#### Kris McFarlane:

Kris McFarlane, co-creator of the Journeyman Study Guide, has over two decades of experience in business development, education, and the trades. Based in the Pacific Northwest, Kris has worked with a range of organizations—from agile startups to publicly traded companies—driving business growth and developing successful strategies across industries. His expertise in scaling businesses and creating educational platforms has been key to the guide's reach and effectiveness.

Kris's deep roots in the trades and industrial sector, paired with his extensive experience in business development, give him a unique ability to understand both the practical and strategic needs of companies and individuals. His leadership and ability to mentor others have helped shape the platform, making it a go-to resource for tradespeople seeking career advancement and certification.

Having struggled with traditional education early in life, Kris understands the importance of making learning accessible for everyone. His passion for empowering others, especially those who feel underserved by conventional education systems, is reflected in every aspect of the Journeyman Study Guide. Kris's work is driven by a commitment to helping aspiring tradespeople succeed in their careers through affordable, practical, and accessible learning resources.

#### Work with the Creators

As co-creators of the Journeyman Study Guide, Bobby Bedi and Kris McFarlane draw from extensive experience working with agile startups, publicly traded companies, and education platforms. Their combined expertise has shaped a platform that empowers businesses and individuals alike. To learn more or explore opportunities with the *Unity Crest Solutions team*, visit *UnityCrestSolutions.com*, where they continue to help organizations and people succeed.



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#### What's Inside:

- **Detailed Overviews** of potential exam formats and key concepts.
- **Practical Tips** for effective study habits and exam strategies.
- Practice Questions to test your knowledge and sharpen your skills.

#### **Tailored to Your Needs:**

Our guide is specifically designed for a variety of trades across all Canadian provinces, ensuring you receive the most relevant and comprehensive information possible.

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"Adapting to Canadian standards was really hard, but the guide bridged the gap between my previous experiences and Canadian requirements." - Ahmed Al-Sayed, Plumber, originally from Egypt

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