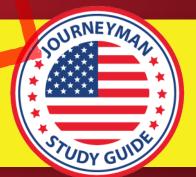
# JOURNEYMAN STUDY GUIDE TRUCK TRAILER SERVICE TECHNICIAN

YEAR 4

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



APPRENTICES I INSTRUCTORS I INSTITUTES

JourneymanStudyGuide.com

UNITY CREST SOLUTIONS INC.

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# 

# Year 4: Leadership, Advanced Applications, and Certification Preparation

# **Subject 3. Advanced Safety Systems for Trailers**

- 1. What is the purpose of lane-keeping systems?
- a) Increase cargo space
- b) Enhance fuel efficiency
- c) Prevent vehicle drift
- d) Improve braking distance

Correct Answer: c) Prevent vehicle drift

**Explanation:** Lane-keeping systems are designed to help maintain a vehicle's position within its lane. They use cameras and sensors to detect lane markings and provide corrective steering inputs when the vehicle begins to drift unintentionally. This technology is crucial for enhancing road safety, especially during long-haul trips where driver fatigue may occur.

- 2. Which sensor is commonly used for collision avoidance?
- a) Gyroscope sensors
- b) Radar sensors
- c) Pressure sensors
- d) Temperature sensors

**Correct Answer: b) Radar sensors** 

**Explanation:** Radar sensors are primarily used in collision avoidance systems to detect the distance and speed of objects in proximity to the vehicle. They emit radio waves and analyze the reflected signals to identify potential hazards. This technology enables Truck Trailer Service Technicians to diagnose issues related to the system's functionality and ensure that trailers are safe on the road.

- 3. What does ESC stand for in safety systems?
- a) Engine Safety Check
- b) Enhanced Safety Compliance
- c) Emergency Steering Control
- d) Electronic Stability Control

**Correct Answer: d) Electronic Stability Control** 

**Explanation:** Electronic Stability Control (ESC) is a safety system designed to improve vehicle stability by detecting and reducing loss of traction. When the system senses a loss of steering control, it automatically applies brakes to individual wheels, helping the driver regain control. Truck Trailer Service Technicians must understand ESC to properly diagnose and repair trailer stability issues.



# 4. Which component assists with adaptive cruise control?

- a) Proximity sensor
- b) Speedometer
- c) Lane assist
- d) Throttle sensor

**Correct Answer: a) Proximity sensor** 

**Explanation:** Proximity sensors play a critical role in adaptive cruise control systems by detecting the distance to the vehicle ahead. They adjust the speed of the truck or trailer automatically to maintain a safe following distance. Truck Trailer Service Technicians need to be adept at diagnosing these sensors for effective cruise control functionality.

# 5. How does a blind spot monitoring system work?

- a) Employs radar or cameras
- b) Uses mirrors effectively
- c) Relies on driver attention
- d) Enhances vehicle speed

Correct Answer: a) Employs radar or cameras

**Explanation:** Blind spot monitoring systems utilize radar or camera technologies to detect vehicles in adjacent lanes that may not be visible to the driver. When a vehicle enters the blind spot, the system alerts the driver through visual or audible warnings. For Truck Trailer Service Technicians, understanding this technology is essential for maintaining safety features in trailers.

# 6. What is a primary function of automatic emergency braking?

- a) Prevent collisions
- b) Reduce driver workload
- c) Enhance cruise control
- d) Increase vehicle speed

**Correct Answer: a) Prevent collisions** 

**Explanation:** Automatic emergency braking (AEB) is designed to prevent or mitigate collisions by automatically applying the brakes when a potential crash is detected. This system relies on various sensors, such as radar and cameras, to assess the environment. Truck Trailer Service Technicians must be skilled in diagnosing and troubleshooting AEB systems to ensure optimal performance and safety.



# 7. Which technology helps in parking assistance?

- a) Tire pressure sensors
- b) Fuel efficiency monitors
- c) GPS technology
- d) Camera systems

**Correct Answer: d) Camera systems** 

**Explanation:** Camera systems are integral to parking assistance technologies, providing real-time visual feedback to drivers. These systems often include rearview cameras and surround-view cameras, which give a comprehensive view of the area around the trailer. Truck Trailer Service Technicians should be familiar with these systems for effective installation and repair.

# 8. What role does the trailer brake controller serve?

- a) Controls engine speed
- b) Adjusts axle load
- c) Engages trailer brakes
- d) Monitors fuel consumption

Correct Answer: c) Engages trailer brakes

**Explanation:** The trailer brake controller is a critical component that allows the driver to control the trailer's braking system. It adjusts the braking force applied to the trailer based on the truck's braking action, ensuring smoother stops and preventing trailer sway. Understanding this system is essential for Truck Trailer Service Technicians to maintain braking efficiency.

# 9. What is the function of a yaw rate sensor?

- a) Detect vehicle rotation
- b) Measure trailer weight
- c) Monitor tire pressure
- d) Control engine power

Correct Answer: a) Detect vehicle rotation

**Explanation:** A yaw rate sensor measures the vehicle's rotation around its vertical axis, providing data essential for stability control systems. It helps determine how much the vehicle is turning and assists in preventing skidding or loss of control. Truck Trailer Service Technicians need to understand this component for diagnosing stability-related issues effectively.



# 10. Which system helps maintain traction on slippery surfaces?

- a) Fuel Injection System
- b) Exhaust System
- c) Adaptive Suspension
- d) Traction Control System

# **Correct Answer: d) Traction Control System**

**Explanation:** The Traction Control System (TCS) helps maintain traction by monitoring wheel spin and adjusting engine power or applying brakes to specific wheels as needed. This system is especially important for trailers operating in adverse weather conditions. Truck Trailer Service Technicians must be familiar with TCS to ensure safe operation during repairs.

# 11. What does a trailer sway control system do?

- a) Increases engine power
- b) Stabilizes trailer motion
- c) Prevents cargo loading
- d) Enhances fuel efficiency

# Correct Answer: b) Stabilizes trailer motion

**Explanation:** Trailer sway control systems are designed to detect and reduce trailer sway, enhancing overall driving stability. They use sensors to monitor the trailer's movement and make adjustments to the brakes or the vehicle's throttle as necessary. Truck Trailer Service Technicians play a crucial role in diagnosing and maintaining this system for safer towing experiences.

# 12. How are lane departure warnings activated?

- a) Manually by drivers
- b) By pressing a button
- c) Through camera detection
- d) Using GPS signals

# Correct Answer: c) Through camera detection

**Explanation:** Lane departure warning systems are activated using cameras that detect lane markings on the road. When the vehicle unintentionally drifts out of its lane, the system alerts the driver through visual or audible signals. Truck Trailer Service Technicians must understand the calibration and functionality of these systems to ensure they operate correctly.



# 13. What does a forward collision warning system do?

- a) Alerts before potential crashes
- b) Increases vehicle speed
- c) Monitors tire pressure
- d) Adjusts cargo weight

Correct Answer: a) Alerts before potential crashes

**Explanation:** A forward collision warning system uses sensors to monitor the distance to vehicles ahead and alerts the driver when a potential collision is imminent. This early warning is crucial for preventing accidents and enhancing safety on the road. Truck Trailer Service Technicians should be knowledgeable about these systems for proper diagnostics and repairs.

# 14. Which is a feature of advanced driver assistance systems?

- a) Reduced engine size
- b) Decreased cargo capacity
- c) Automatic lane changing
- d) Manual gear shifting

Correct Answer: c) Automatic lane changing

**Explanation:** Advanced Driver Assistance Systems (ADAS) include features like automatic lane changing, which allows the vehicle to change lanes autonomously under certain conditions. This technology enhances driving convenience and safety. Truck Trailer Service Technicians must be equipped with the skills to troubleshoot and repair ADAS components effectively.

# 15. What type of technology is used in proximity sensors?

- a) Mechanical sensors
- b) Optical technology
- c) Infrared technology
- d) Radio frequency

**Correct Answer: d) Radio frequency** 

**Explanation:** Proximity sensors typically use radio frequency technology to detect nearby objects and measure their distance. This information is critical for systems such as adaptive cruise control and parking assistance. Truck Trailer Service Technicians need to understand how to diagnose and maintain these sensors to ensure proper functionality in advanced safety systems.



# 16. How does a rear cross-traffic alert work?

- a) Detects vehicles behind
- b) Adjusts engine power
- c) Monitors tire conditions
- d) Uses side mirrors

Correct Answer: a) Detects vehicles behind

**Explanation:** Rear cross-traffic alert systems monitor the areas behind the vehicle when reversing and alert the driver to approaching vehicles. This technology is particularly helpful in crowded parking lots. Truck Trailer Service Technicians must be familiar with these systems when performing maintenance and repairs to enhance safety during vehicle operation.

# 17. Which component is vital for adaptive headlights?

- a) Tire pressure monitors
- b) Light sensors
- c) Engine control unit
- d) Wheel alignment

Correct Answer: b) Light sensors

**Explanation:** Light sensors are crucial for adaptive headlights, as they detect ambient light levels and adjust the headlight angle accordingly. This feature improves visibility in various driving conditions. Truck Trailer Service Technicians should be adept at diagnosing and calibrating adaptive headlight systems to ensure they function correctly.

#### 18. What does the term "sensor fusion" refer to?

- a) Combining sensor data
- b) Isolating sensor types
- c) Reducing sensor weight
- d) Increasing sensor size

Correct Answer: a) Combining sensor data

**Explanation:** Sensor fusion refers to the process of integrating data from multiple sensors to create a more accurate representation of the environment. This technique enhances the performance of systems like collision avoidance and lane-keeping. Truck Trailer Service Technicians should understand sensor fusion to troubleshoot complex safety systems effectively.



# 19. What type of feedback does a haptic feedback system provide?

- a) Engine changes
- b) Physical vibrations
- c) Audio signals
- d) Visual alerts

# **Correct Answer: b) Physical vibrations**

**Explanation:** A haptic feedback system provides physical vibrations to alert the driver of potential hazards or system warnings, such as lane departures. This tactile feedback enhances driver awareness without distracting them visually or audibly. Truck Trailer Service Technicians need to be knowledgeable about these systems for thorough diagnostics and repairs.

# 20. What is the role of a vehicle control module?

- a) Adjust tire pressure
- b) Manage cargo weight
- c) Control safety systems
- d) Monitor fuel levels

# Correct Answer: c) Control safety systems

**Explanation:** The vehicle control module is responsible for managing various safety systems, including those related to collision avoidance and stability control. It processes data from multiple sensors to make real-time adjustments. Truck Trailer Service Technicians must be skilled in diagnosing issues with the control module to maintain optimal safety standards.

# 21. How does a tire pressure monitoring system (TPMS) enhance safety?

- a) Increases fuel consumption
- b) Monitors tire air pressure
- c) Adjusts tire size
- d) Reduces engine noise

#### **Correct Answer: b) Monitors tire air pressure**

**Explanation:** A Tire Pressure Monitoring System (TPMS) enhances safety by continuously monitoring the air pressure in each tire. It alerts the driver when tire pressure falls below recommended levels, which can prevent blowouts and improve handling. Truck Trailer Service Technicians should be proficient in diagnosing and repairing TPMS to ensure safe vehicle operation.



# 22. What is the main advantage of vehicle-to-vehicle communication?

- a) Improves fuel economy
- b) Reduces engine wear
- c) Increases cargo capacity
- d) Enhances safety through alerts

# Correct Answer: d) Enhances safety through alerts

**Explanation:** Vehicle-to-vehicle communication allows vehicles to share information about their speed, direction, and potential hazards with each other. This technology enhances safety by providing early warnings to drivers about impending collisions or dangerous conditions. Truck Trailer Service Technicians need to understand this technology to maintain and troubleshoot related systems.

# 23. Which system prevents wheel lock-up during braking?

- a) Traction Control System
- b) Anti-lock Braking System
- c) Automatic Emergency Braking
- d) Electronic Stability Control

# Correct Answer: b) Anti-lock Braking System

**Explanation:** The Anti-lock Braking System (ABS) prevents wheel lock-up during hard braking by modulating brake pressure. This helps maintain steering control and improves safety during emergency stops. Truck Trailer Service Technicians must be knowledgeable about ABS to ensure trailers have efficient braking systems.

# 24. What is a key function of electronic brake-force distribution?

- a) Enhances fuel efficiency
- b) Balances load distribution
- c) Adjusts engine timing
- d) Monitors tire wear

#### Correct Answer: b) Balances load distribution

**Explanation:** Electronic Brake-force Distribution (EBD) optimally distributes braking force among all wheels based on load conditions. This enhances braking efficiency and stability, especially when carrying uneven loads. Truck Trailer Service Technicians need to be familiar with EBD to diagnose and repair braking systems effectively.



# 25. How do advanced safety systems improve driver awareness?

- a) Provide alerts and warnings
- b) Increase vehicle speed
- c) Minimize fuel consumption
- d) Reduce road noise

# **Correct Answer: a) Provide alerts and warnings**

**Explanation:** Advanced safety systems improve driver awareness by providing realtime alerts and warnings about potential hazards or system malfunctions. These notifications can include visual, auditory, or haptic feedback, helping drivers make informed decisions on the road. Truck Trailer Service Technicians must be well-versed in these systems to ensure they function correctly and enhance overall safety.

Truck Trailer Service Technician - Year 4





- 1). A B C D
- 6). A B C D
- 11). A B C D

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

#### **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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Remember, the Journeyman Study Guide is a tool to complement your study regimen. For optimal results, use this guide in conjunction with the latest official materials issued by government authorities.

#### Are You Ready to Take the Next Step?

With the Journeyman Study Guide in hand, you are well-equipped to tackle the challenges of the exam and step confidently into your career as a certified tradesperson.

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