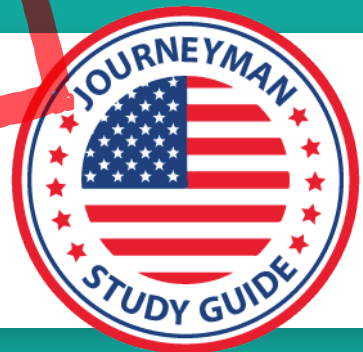


JOURNEYMAN STUDY GUIDE AUTO BODY COLLISION TECHNICIAN

YEAR 2

SAMPLE
250 EXAM PREP QUESTIONS,
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

JourneymanStudyGuide.com

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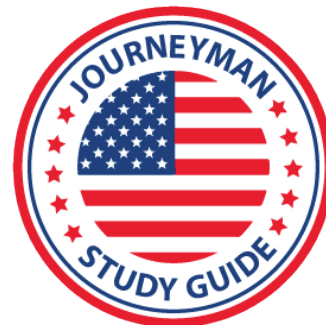
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SNOW STUDS QUEST



Year 2: Intermediate Repairs and Diagnostics

Subject 3. Basic ADAS and Sensor Calibration

1. What does ADAS stand for?

- a) Advanced Driver Assistance Systems
- b) Automated Driving Assistance Systems
- c) Automated Driver Aid Systems
- d) Advanced Driver Automation Systems

Correct Answer: a) Advanced Driver Assistance Systems

Explanation: Advanced Driver Assistance Systems (ADAS) refers to a range of safety features designed to enhance vehicle safety and improve the driving experience. These systems use various sensors and cameras to assist drivers in tasks such as lane keeping, adaptive cruise control, and collision avoidance. Understanding ADAS is crucial for auto body and collision technicians.

2. Which component is crucial for ADAS functionality?

- a) Brakes
- b) Exhaust
- c) Tires
- d) Sensors

Correct Answer: d) Sensors

Explanation: Sensors are vital components of Advanced Driver Assistance Systems (ADAS) as they detect environmental conditions and obstacles, enabling the system to perform functions like emergency braking and lane departure warnings. Various types of sensors, including ultrasonic, radar, and cameras, work together to provide a comprehensive understanding of the vehicle's surroundings, making sensor calibration essential for proper ADAS operation.

3. What role do cameras play in ADAS?

- a) Control engine temperature
- b) Detect obstacles
- c) Enhance fuel efficiency
- d) Monitor tire pressure

Correct Answer: b) Detect obstacles

Explanation: Cameras in Advanced Driver Assistance Systems (ADAS) are primarily used to detect obstacles, lane markings, and traffic signs. They provide visual input that is analyzed by the vehicle's onboard computer to assist in navigation and safety functions. Proper camera calibration is crucial after any collision repair to ensure accurate detection and system performance.



4. Which sensor is most common in ADAS?

- a) Speed sensor
- b) Oil pressure sensor
- c) Temperature sensor
- d) Radar sensor

Correct Answer: d) Radar sensor

Explanation: Radar sensors are commonly used in Advanced Driver Assistance Systems (ADAS) for features like adaptive cruise control and collision avoidance. They emit radio waves to detect objects and measure their distance and speed relative to the vehicle. Accurate calibration of radar sensors is essential for ensuring the reliability and effectiveness of these safety systems.

5. How can collisions affect ADAS performance?

- a) Increase fuel consumption
- b) Improve system accuracy
- c) Enhance driver control
- d) Cause misalignment

Correct Answer: d) Cause misalignment

Explanation: Collisions can lead to misalignment of the sensors and cameras associated with Advanced Driver Assistance Systems (ADAS). Even minor damage can disrupt the calibration, resulting in inaccurate readings and compromised system performance. It is essential for collision technicians to assess and recalibrate these systems post-repair to restore functionality and ensure the safety of the vehicle.

6. What is sensor calibration?

- a) Cleaning vehicle sensors
- b) Aligning vehicle wheels
- c) Measuring tire pressure
- d) Adjusting sensor accuracy

Correct Answer: d) Adjusting sensor accuracy

Explanation: Sensor calibration is the process of adjusting the settings and alignment of sensors to ensure they provide accurate readings and function correctly within the Advanced Driver Assistance Systems (ADAS). This process is critical after repairs or replacements, as improperly calibrated sensors can lead to system failures, false warnings, or even accidents.



7. Which system typically uses LiDAR technology?

- a) Blind spot monitoring
- b) Adaptive cruise control
- c) Collision avoidance
- d) Lane departure warning

Correct Answer: c) Collision avoidance

Explanation: LiDAR technology is commonly used in collision avoidance systems within Advanced Driver Assistance Systems (ADAS). It uses laser pulses to create a detailed 3D map of the vehicle's surroundings, allowing the system to detect obstacles and calculate distances accurately. Understanding how LiDAR works is important for auto body technicians, especially when recalibrating systems after repairs.

8. What does radar measure in ADAS?

- a) Distance and speed
- b) Engine temperature
- c) Fuel efficiency
- d) Tire wear

Correct Answer: a) Distance and speed

Explanation: Radar sensors in Advanced Driver Assistance Systems (ADAS) measure the distance and speed of objects around the vehicle. They emit radio waves that bounce off nearby objects, enabling the system to determine their relative motion and proximity. This information is crucial for functions like adaptive cruise control and automatic emergency braking, highlighting the importance of accurate radar calibration.

9. Which ADAS feature helps with parking?

- a) Adaptive cruise control
- b) Collision warning
- c) Parking assist
- d) Lane keeping assist

Correct Answer: c) Parking assist

Explanation: Parking assist is an Advanced Driver Assistance System (ADAS) feature designed to help drivers park their vehicles safely and easily. This system uses a combination of sensors and cameras to detect available parking spaces and can even steer the vehicle into the spot while the driver controls the pedals. Proper calibration of parking assist sensors is essential for effective operation.



10. What is the purpose of lane departure warning?

- a) Control air conditioning
- b) Enhance engine performance
- c) Prevent drifting from lanes
- d) Monitor tire pressure

Correct Answer: c) Prevent drifting from lanes

Explanation: Lane departure warning systems are designed to alert drivers when their vehicle begins to drift out of its lane without signaling. This ADAS feature uses cameras to monitor lane markings and can provide visual or audible warnings to the driver. Proper calibration of the system is essential to ensure accurate lane detection and effective warnings, especially after collision repairs.

11. What happens if ADAS is not calibrated?

- a) System malfunctions
- b) Enhanced safety
- c) Improved performance
- d) Increased fuel economy

Correct Answer: a) System malfunctions

Explanation: If Advanced Driver Assistance Systems (ADAS) are not properly calibrated after repairs, they may malfunction or provide inaccurate readings. This can lead to false alerts, failure to activate safety features, and ultimately compromise vehicle safety. Therefore, it is essential for auto body and collision technicians to ensure that all ADAS components are correctly aligned and calibrated post-repair.

12. Which component aids in adaptive cruise control?

- a) Radar sensor
- b) Brake pads
- c) Oil filter
- d) Battery

Correct Answer: a) Radar sensor

Explanation: Adaptive cruise control systems utilize radar sensors to maintain a safe distance from the vehicle ahead. These sensors continuously measure the distance and speed of surrounding vehicles, allowing the system to automatically adjust the car's speed to maintain a safe following distance. Proper calibration of these radar sensors is critical for the safe and effective operation of adaptive cruise control.



13. What is the main function of ultrasonic sensors?

- a) Monitor oil levels
- b) Control engine speed
- c) Measure fuel consumption
- d) Detect objects nearby

Correct Answer: d) Detect objects nearby

Explanation: Ultrasonic sensors are primarily used in Advanced Driver Assistance Systems (ADAS) to detect objects in proximity to the vehicle, especially during parking maneuvers. They emit sound waves that bounce off nearby objects and return to the sensor, allowing it to gauge distance. Proper calibration is essential to ensure accurate detection and avoid collisions while maneuvering in tight spaces.

14. Which technology is crucial for blind spot detection?

- a) LiDAR
- b) GPS
- c) Radar
- d) Infrared

Correct Answer: c) Radar

Explanation: Radar technology is crucial for blind spot detection systems in Advanced Driver Assistance Systems (ADAS). These systems use radar sensors to monitor areas alongside and behind the vehicle, alerting the driver to the presence of other vehicles in their blind spots. Accurate calibration of radar sensors is important to ensure that the system functions correctly and enhances driver safety.

15. What is a common cause of ADAS malfunction?

- a) Sensor misalignment
- b) Fuel contamination
- c) Low tire pressure
- d) Dirty windshield

Correct Answer: a) Sensor misalignment

Explanation: Sensor misalignment is a common cause of malfunction in Advanced Driver Assistance Systems (ADAS). After a collision or repair, the sensors and cameras responsible for detecting objects and lane markings may become misaligned, leading to inaccurate readings and potential system failures. Technicians must perform calibration to realign these components and restore system accuracy and reliability.



16. How do ADAS systems enhance safety?

- a) Automate driving
- b) Provide warnings
- c) Reduce engine load
- d) Improve speed

Correct Answer: b) Provide warnings

Explanation: Advanced Driver Assistance Systems (ADAS) enhance safety by providing drivers with warnings about potential hazards, such as lane departures or approaching vehicles. These systems use various sensors and cameras to monitor the vehicle's surroundings and alert the driver to take corrective action. Proper calibration of these systems is critical to ensure their effectiveness in preventing accidents.

17. What is the primary purpose of a calibration tool?

- a) Adjust sensor settings
- b) Check oil level
- c) Align vehicle wheels
- d) Measure tire pressure

Correct Answer: a) Adjust sensor settings

Explanation: A calibration tool is primarily used to adjust the settings and alignment of sensors in Advanced Driver Assistance Systems (ADAS). These tools ensure that the sensors provide accurate readings and function effectively within the system. Proper use of calibration tools is essential after repairs or sensor replacements to maintain the safety and performance of the vehicle.

18. Which ADAS feature assists in maintaining speed?

- a) Parking assist
- b) Automatic emergency braking
- c) Lane keeping assist
- d) Adaptive cruise control

Correct Answer: d) Adaptive cruise control

Explanation: Adaptive cruise control is an Advanced Driver Assistance System (ADAS) feature that assists drivers in maintaining a constant speed while automatically adjusting to the speed of the vehicle ahead. This system enhances driving comfort and safety by reducing the need for manual speed adjustments. Proper calibration of the radar sensors involved is essential for accurate distance detection and smooth operation.



19. What is the effect of poor sensor calibration?

- a) Increased driver comfort
- b) Improved functionality
- c) Enhanced performance
- d) Safety risks

Correct Answer: d) Safety risks

Explanation: Poor sensor calibration in Advanced Driver Assistance Systems (ADAS) can lead to significant safety risks. Malfunctioning sensors may fail to detect obstacles or provide incorrect warnings, increasing the likelihood of accidents. It is crucial for auto body technicians to ensure that all sensors are properly calibrated after repairs to maintain the effectiveness of these safety systems and protect drivers.

20. What does a forward collision warning system do?

- a) Warns about potential collisions
- b) Monitors tire pressure
- c) Enhances fuel economy
- d) Alerts of nearby parking spaces

Correct Answer: a) Warns about potential collisions

Explanation: A forward collision warning system is designed to alert drivers about potential collisions with vehicles or obstacles ahead. It uses sensors to monitor the distance and speed of objects in front of the vehicle, providing warnings when a collision is imminent. Proper calibration of this system is essential to ensure timely and accurate alerts, enhancing overall vehicle safety.

21. Which component is important for lane keeping assist?

- a) Cameras
- b) Steering wheel
- c) Fuel injector
- d) Battery

Correct Answer: a) Cameras

Explanation: Cameras are crucial for lane keeping assist systems in Advanced Driver Assistance Systems (ADAS). They monitor lane markings to determine if the vehicle is drifting out of its lane. If the system detects this, it can provide alerts or even assist in steering to keep the vehicle centered. Accurate calibration of cameras is vital for effective lane detection and safe driving.



22. What is the main benefit of ADAS?

- a) Enhanced speed
- b) Improved fuel efficiency
- c) Lower maintenance costs
- d) Increased safety

Correct Answer: d) Increased safety

Explanation: The main benefit of Advanced Driver Assistance Systems (ADAS) is increased safety for both drivers and passengers. These systems help prevent accidents by providing real-time information and alerts about potential hazards, assisting with critical driving tasks, and automating certain functions. For auto body technicians, understanding ADAS is essential to ensure these systems function correctly after repairs.

23. Which sensor type is used for parking assist?

- a) Infrared
- b) Ultrasonic
- c) Lidar
- d) GPS

Correct Answer: b) Ultrasonic

Explanation: Ultrasonic sensors are commonly used in parking assist systems within Advanced Driver Assistance Systems (ADAS). These sensors emit sound waves to detect nearby objects, helping drivers maneuver into parking spaces safely. Proper calibration of these sensors is critical to ensure accurate distance measurements, preventing collisions while parking and enhancing overall safety.

24. How often should ADAS be calibrated?

- a) Only during inspections
- b) Once a year
- c) Every oil change
- d) After repairs

Correct Answer: d) After repairs

Explanation: Advanced Driver Assistance Systems (ADAS) should be calibrated after any repairs that could affect sensor alignment or functionality. This includes collision repairs, sensor replacements, or structural adjustments. Regular calibration ensures that the systems operate accurately and effectively, maintaining the safety and reliability of the vehicle. Auto body technicians must prioritize calibration during post-repair assessments.



25. What is the role of the ADAS control module?

- a) Control engine functionality
- b) Monitor tire pressure
- c) Manage sensor data
- d) Adjust fuel mixture

Correct Answer: c) Manage sensor data

Explanation: The ADAS control module is responsible for managing data from various sensors within the Advanced Driver Assistance Systems (ADAS). It processes this information to execute functions such as adaptive cruise control, lane keeping, and collision avoidance. Proper calibration of the control module ensures that the system responds accurately to sensor inputs, enhancing vehicle safety and performance.



Subject - 1

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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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"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

"As an instructor, I find the Journeyman Study Guide aligns well with the curriculum and significantly aids my students." - Derek Smith, Welding Instructor

A Companion, Not a Substitute:

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.

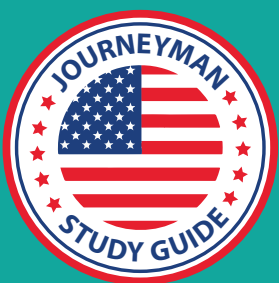
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With the Journeyman Study Guide in hand, you are well-equipped to tackle the challenges of the exam and step confidently into your career as a certified tradesperson.

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