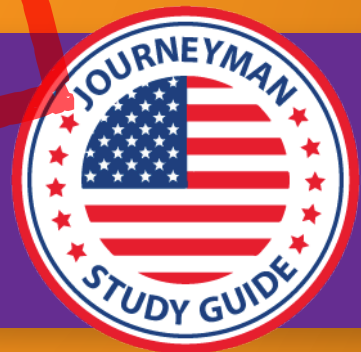


# JOURNEYMAN STUDY GUIDE AUTO BODY COLLISION TECHNICIAN YEAR 3

**250 EXAM PREP QUESTIONS,  
WITH EXPLAINED ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

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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.

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1. *Apprentices*: Looking to kickstart your career? Our study guides and practice tests will help you build the foundational skills you need to succeed.
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— Jessica Taylor, Apprentice Ironworker

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— Carlos Ramirez, Electrician, originally from Mexico

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— John Davis, Union Welding Instructor

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1. *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.
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# QUESTIONS



## **Year 3: Advanced Systems and Techniques**

### **Subject 3. Advanced Electrical and ADAS Calibration**

#### **1. What does ADAS stand for?**

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

**Correct Answer: d) Advanced Driver Assistance Systems**

**Explanation:** ADAS refers to Advanced Driver Assistance Systems, which are technologies designed to enhance vehicle safety and improve driving experience. These systems use various sensors, cameras, and radar to monitor the vehicle's surroundings and assist the driver in various situations, such as collision avoidance and lane-keeping.

#### **2. Which sensor is primarily used for adaptive cruise control?**

- a) Radar
- b) Lidar
- c) Ultrasonic sensor
- d) Camera

**Correct Answer: a) Radar**

**Explanation:** Radar sensors are primarily used in adaptive cruise control systems. They can detect the distance and speed of vehicles ahead, enabling the system to adjust the vehicle's speed automatically. This technology enhances safety by maintaining a safe following distance and reducing the risk of rear-end collisions.

#### **3. What is the main function of ultrasonic sensors?**

- a) Activating brakes
- b) Detecting distance
- c) Monitoring speed
- d) Guiding navigation

**Correct Answer: b) Detecting distance**

**Explanation:** Ultrasonic sensors are used primarily for detecting distance, typically in parking assistance systems. They emit sound waves and measure the time it takes for the waves to bounce back, allowing the system to calculate the distance to nearby objects. This information helps drivers avoid obstacles while parking.





#### **4. How should damaged wiring be repaired in EVs?**

- a) Soldering only
- b) Electrical tape only
- c) Connector replacement
- d) Crimping only

**Correct Answer: c) Connector replacement**

**Explanation:** In electric vehicles (EVs), damaged wiring should be repaired using connector replacement methods. This ensures a secure and reliable electrical connection while maintaining the integrity of the wiring system. Soldering or crimping may not be advisable due to the high voltage and current levels in EV systems, which require safe and robust connections.

#### **5. Which component is crucial for a camera calibration?**

- a) Alignment tool
- b) Battery charger
- c) Power inverter
- d) Ultrasonic sensor

**Correct Answer: a) Alignment tool**

**Explanation:** An alignment tool is crucial for camera calibration in vehicles equipped with Advanced Driver Assistance Systems. Proper calibration ensures that the camera's field of view is aligned with the vehicle's parameters, allowing for accurate detection and interpretation of the surrounding environment, which is essential for effective ADAS functioning.

#### **6. What is the purpose of the Lidar sensor?**

- a) Distance measuring
- b) Image capturing
- c) Speed monitoring
- d) Temperature sensing

**Correct Answer: a) Distance measuring**

**Explanation:** Lidar (Light Detection and Ranging) sensors are used for precise distance measuring by emitting laser beams and calculating the time it takes for the light to return. This technology is vital for mapping the environment in real-time, assisting in navigation, obstacle detection, and enhancing the overall functionality of autonomous vehicles.



**7. What does a forward collision warning system use?**

- a) Only ultrasonic sensors
- b) Cameras and radar
- c) Only cameras
- d) Only radar

**Correct Answer: b) Cameras and radar**

**Explanation:** A forward collision warning system typically utilizes both cameras and radar to detect vehicles and obstacles ahead. This combination allows for better accuracy and reliability in assessing potential collision risks, enabling timely warnings to the driver to take preventive measures, thus enhancing safety.

**8. How does a lane departure warning system operate?**

- a) Using GPS only
- b) Using cameras and sensors
- c) Using ultrasonic sensors
- d) Using radar only

**Correct Answer: b) Using cameras and sensors**

**Explanation:** A lane departure warning system operates using a combination of cameras and sensors to monitor lane markings on the road. If the vehicle begins to drift out of its lane without signaling, the system alerts the driver, helping to prevent unintended lane departures and potential accidents.

**9. What type of sensor is used for parking assist?**

- a) Ultrasonic
- b) Lidar
- c) Camera
- d) Radar

**Correct Answer: a) Ultrasonic**

**Explanation:** Ultrasonic sensors are commonly used in parking assist systems due to their ability to detect nearby obstacles accurately. These sensors emit sound waves and measure the distance to objects, providing real-time feedback to drivers, which helps facilitate safe and effective parking maneuvers.



**10. What is required before recalibrating a radar sensor?**

- a) Cleaning the sensor
- b) Powering off the vehicle
- c) Aligning the sensor
- d) Resetting the battery

**Correct Answer: c) Aligning the sensor**

**Explanation:** Before recalibrating a radar sensor, proper alignment of the sensor is required. Misalignment can lead to inaccurate readings and ineffective performance of the Advanced Driver Assistance Systems that rely on the radar sensor for object detection and collision avoidance. Ensuring correct alignment is crucial for successful calibration.

**11. Which wiring technique is best for high-voltage systems?**

- a) Soldering
- b) Tape wrapping
- c) Twisting
- d) Crimping

**Correct Answer: d) Crimping**

**Explanation:** Crimping is the best wiring technique for high-voltage systems, such as those found in hybrid and electric vehicles. This method provides a strong and secure connection that can handle the high currents and voltages involved, reducing the risk of electrical failure and ensuring the safety and reliability of the vehicle's electrical system.

**12. What is the primary role of the vehicle's battery management system?**

- a) Controlling infotainment
- b) Powering lights
- c) Managing battery health
- d) Enhancing performance

**Correct Answer: c) Managing battery health**

**Explanation:** The primary role of the vehicle's battery management system (BMS) is to manage and monitor battery health. It ensures optimal charging and discharging cycles, protects against overcharging or deep discharging, and provides important data regarding battery status, thus prolonging battery life and ensuring safety in electric and hybrid vehicles.



**13. What type of calibration is needed after replacing a windshield?**

- a) Lidar calibration
- b) Camera calibration
- c) Ultrasonic calibration
- d) Radar calibration

**Correct Answer: b) Camera calibration**

**Explanation:** After replacing a windshield, camera calibration is necessary, especially if the vehicle is equipped with advanced driver assistance systems that utilize cameras for functions like lane departure warning and adaptive cruise control. Proper calibration ensures that the camera is correctly aligned with the vehicle's systems, maintaining functionality and safety.

**14. Which tool is essential for ADAS calibration?**

- a) Alignment rack
- b) Multimeter
- c) Diagnostic scanner
- d) Torque wrench

**Correct Answer: c) Diagnostic scanner**

**Explanation:** A diagnostic scanner is essential for ADAS calibration as it allows technicians to communicate with the vehicle's onboard systems. This tool enables the technician to access diagnostic trouble codes, perform calibrations, and ensure that all sensors and systems are functioning correctly after repairs or replacements.

**15. What is a common issue with radar sensors?**

- a) Water damage
- b) Low battery
- c) Overheating
- d) Interference

**Correct Answer: d) Interference**

**Explanation:** Interference is a common issue with radar sensors, particularly from other electronic devices or objects in the environment that can disrupt the radar signals. This interference can lead to inaccurate readings or false alerts, necessitating careful placement and shielding of radar sensors to ensure reliable performance in Advanced Driver Assistance Systems.



**16. What safety feature does a blind-spot monitoring system provide?**

- a) Rear visibility
- b) Object detection
- c) Collision avoidance
- d) Lane keeping

**Correct Answer: b) Object detection**

**Explanation:** A blind-spot monitoring system provides object detection by using sensors to monitor areas alongside and behind the vehicle that may not be visible to the driver. When another vehicle enters the blind spot, the system alerts the driver, enhancing safety during lane changes and reducing the risk of collisions.

**17. Which component is vital for hybrid vehicle diagnostics?**

- a) Battery control module
- b) Engine control unit
- c) Fuel gauge
- d) Transmission fluid

**Correct Answer: a) Battery control module**

**Explanation:** The battery control module is vital for hybrid vehicle diagnostics as it manages the performance and health of the hybrid battery pack. It monitors charging and discharging cycles, ensuring that the electric motor operates efficiently and that the vehicle maintains optimal fuel economy and performance.

**18. What is the first step in ADAS calibration?**

- a) Vehicle alignment
- b) Software update
- c) Sensor cleaning
- d) System diagnosis

**Correct Answer: d) System diagnosis**

**Explanation:** The first step in ADAS calibration is conducting a system diagnosis. This process involves checking the vehicle's existing systems and sensors to identify any faults or issues that may affect calibration. Understanding the current state helps ensure that all components are functioning correctly before proceeding to calibration.



**19. What is the main advantage of using cameras in ADAS?**

- a) Easy installation
- b) High resolution
- c) Low power consumption
- d) Low cost

**Correct Answer: b) High resolution**

**Explanation:** The main advantage of using cameras in ADAS is their high resolution, allowing for detailed visual information about the vehicle's surroundings. This capability enables advanced functionalities such as lane departure warning, traffic sign recognition, and pedestrian detection, significantly enhancing the vehicle's safety and driver assistance features.

**20. What is important for sensor placement in ADAS?**

- a) Field of view
- b) Aesthetics
- c) Cost-effectiveness
- d) Calibration ease

**Correct Answer: a) Field of view**

**Explanation:** The field of view is crucial for sensor placement in ADAS as it determines the area that the sensor can monitor effectively. Proper placement ensures that sensors can detect objects, lane markings, and other vehicles accurately, which is vital for the performance of advanced driver assistance features and overall vehicle safety.

**21. What is the role of the electronic control unit (ECU)?**

- a) Optimize fuel consumption
- b) Control airbags
- c) Manage battery charging
- d) Process sensor data

**Correct Answer: d) Process sensor data**

**Explanation:** The electronic control unit (ECU) plays a critical role in processing sensor data from various ADAS components. It interprets data from cameras, radar, and other sensors to make real-time decisions that enhance vehicle safety and functionality. Proper ECU operation is essential for the effective performance of advanced driver assistance systems.





**22. What happens if ADAS calibration is incorrect?**

- a) Increased fuel efficiency
- b) Enhanced performance
- c) Malfunctioning systems
- d) Improved safety

**Correct Answer: c) Malfunctioning systems**

**Explanation:** If ADAS calibration is incorrect, it can lead to malfunctioning systems that may not operate as intended. This miscalibration can result in false alerts, ineffective safety features, and even increased risk of accidents. Accurate calibration is vital to ensure that all systems function correctly and safely within the vehicle's operational parameters.

**23. Which system provides emergency braking assistance?**

- a) Automatic emergency braking
- b) Blind-spot monitoring
- c) Lane departure warning
- d) Adaptive cruise control

**Correct Answer: a) Automatic emergency braking**

**Explanation:** Automatic emergency braking (AEB) is the system that provides emergency braking assistance by automatically applying the brakes when a potential collision is detected. This system enhances overall vehicle safety by reducing the severity of a collision or preventing it altogether, making it an essential feature in modern vehicles equipped with ADAS.

**24. What is a key benefit of radar over cameras?**

- a) Night vision
- b) Low cost
- c) Color detection
- d) High resolution

**Correct Answer: a) Night vision**

**Explanation:** A key benefit of radar over cameras is its capability for night vision. Radar can detect objects and measure distances regardless of lighting conditions, making it effective in low-light scenarios where cameras may struggle. This feature is crucial for enhancing safety during night driving and adverse weather conditions.



**25. How does a vehicle detect pedestrians?**

- a) Using cameras and radar
- b) Using radar only
- c) Using ultrasonic sensors
- d) Using cameras only

**Correct Answer: a) Using cameras and radar**

**Explanation:** A vehicle detects pedestrians using a combination of cameras and radar. This dual approach allows for accurate identification of pedestrians in various conditions, improving the vehicle's ability to respond appropriately to potential collisions. The integration of these technologies enhances the overall effectiveness of safety features in Advanced Driver Assistance Systems.

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](https://UnityCrestSolutions.com), where they continue to help organizations and people succeed.



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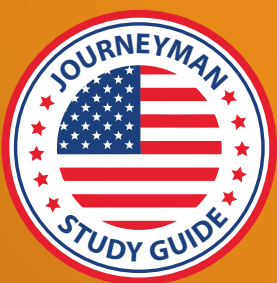
## Are You Ready to Take the Next Step?

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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