SOVD: Understanding Service Oriented Vehicle Diagnostics

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| Slide Number | Voice-Over Script | On-Screen Text | Video Description | Image/Infographic Suggestion |
| 1 | Hello, and welcome to the module on Service-Oriented Vehicle Diagnostics (SOVD).  *Click Start to begin the module.* | Service-Oriented Vehicle Diagnostics (SOVD)  *Click Start to begin* | Soft animation of a futuristic car diagnostic interface. Upbeat, tech-themed background music. The company logo subtly animates in the corner. | Company logo animation with a high-tech car interface in the background. |
| 2 | Before we begin, let us watch a scenario. | **Scenario** Before we begin, let us watch a scenario. | Opening scene: A busy car repair shop in Mumbai, India. Sound of tools and chatter. *Add a transition line* | Wide shot of a busy car repair shop in Mumbai, India. |
| 3 | **Ramesh:** Arre yaar, this new car is showing a weird error. My old scanner isn't working! What to do?   **Priya:** Relax, Ramesh! I heard about this new diagnostic system, SOVD. Let me check it out. | **Ramesh:** Arre yaar, this new car is showing a weird error. My old scanner isn't working! What to do?   **Priya:** Relax, Ramesh! I heard about this new diagnostic system, SOVD. Let me check it out. | Ramesh (frustrated) wiping sweat from his brow. Priya (calm and confident) tapping on a tablet. *Add a transition line* | Close-up on Ramesh's stressed face, then focus on Priya's tablet displaying a modern diagnostic interface. |
| 4 | **Priya:** Look, this SOVD system uses the internet to diagnose the car. It shows real-time data and possible solutions.   **Ramesh:** Internet? In car diagnostics? How accurate is that? | **Priya:** Look, this SOVD system uses the internet to diagnose the car. It shows real-time data and possible solutions.   **Ramesh:** Internet? In car diagnostics? How accurate is that? | Priya demonstrates the SOVD interface on the tablet. Ramesh looking skeptical but intrigued. *Add a transition line* | Animation showing data flowing from the car to a cloud server and back to the tablet. |
| 5 | **Priya:** It's based on open standards, so it's reliable. See, it pinpointed the exact issue! A faulty sensor in the ADAS system.   **Ramesh:** Wow! That's amazing. My old scanner would have taken hours to find that. | **Priya:** It's based on open standards, so it's reliable. See, it pinpointed the exact issue! A faulty sensor in the ADAS system.   **Ramesh:** Wow! That's amazing. My old scanner would have taken hours to find that. | Priya pointing to a specific error code on the tablet. Ramesh's expression changes to amazement. *Add a transition line* | Graphic highlighting the faulty sensor in the ADAS system on a car diagram. |
| 6 | **Ramesh:** This SOVD seems like a game-changer. No more outdated software and expensive updates!   **Priya:** Exactly! And it's constantly improving with over-the-air updates. It's the future of car diagnostics. | **Ramesh:** This SOVD seems like a game-changer. No more outdated software and expensive updates!   **Priya:** Exactly! And it's constantly improving with over-the-air updates. It's the future of car diagnostics. | Ramesh nodding in agreement, looking relieved. Priya smiling confidently. *Add a transition line* | Image of a technician installing a new sensor, with a speech bubble saying "SOVD saved me hours!" |
| 7 | As seen from the above scenario... |  | Concluding shot of Ramesh and Priya shaking hands, both smiling. Fade to white. | Image of a modern car repair shop with SOVD diagnostic systems in use. |
| 8 | Let us quickly look at the objectives of this module.   By the end of this module, you will be able to:  • Identify the key components of the SOVD landscape  • Explain the evolution of SOVD diagnostics  • Apply SOVD standardization principles  • Analyze SOVD developments  • Evaluate the user perspective and future outlook of SOVD  • Demonstrate the realization of today's diagnostic use cases with SOVD | **Learning Objectives**  By the end of this module, you will be able to:   • Identify the key components of the SOVD landscape  • Explain the evolution of SOVD diagnostics  • Apply SOVD standardization principles  • Analyze SOVD developments  • Evaluate the user perspective and future outlook of SOVD  • Demonstrate the realization of today's diagnostic use cases with SOVD | Animate each objective as it is spoken, highlighting key words. | Bulleted list of learning objectives with animated check marks as each objective is mentioned. |
| 9 | Next, let’s delve into ASAM in Nutshell.   ASAM - Association for Standardization of Automation and Measuring Systems, a member-driven nonprofit organization. | ASAM in Nutshell  ASAM - Association for Standardization of Automation and Measuring Systems, a member-driven nonprofit organization. | Show ASAM logo and text description. | ASAM logo and text description. |
| 10 | Let’s learn more about ASAM.   Founded in December 1998.   Member-Driven Organization - more than 350 member companies worldwide. | ASAM in Nutshell  Founded in December 1998.   Member-Driven Organization - more than 350 member companies worldwide. | Show ASAM milestones. | A timeline showing key milestones in ASAM's history. |
| 11 | We will discuss more about the WORK MODEL of ASAM.  Products are initiated and developed by ASAM members to the benefit of the entire industry.   38+ Standard specifications developed by ASAM | ASAM in Nutshell  Products are initiated and developed by ASAM members to the benefit of the entire industry.   38+ Standard specifications developed by ASAM | Show the workflow of ASAM. | A flowchart illustrating the ASAM development process, from idea to implementation. |
| 12 | Additionally,ASAM standards define interfaces, protocols, file formats and data models for development and testing throughout the vehicle development pipeline. | ASAM in Nutshell  ASAM standards define interfaces, protocols, file formats and data models for development and testing throughout the vehicle development pipeline. | Animated vehicle development pipeline. | An animated infographic showing the vehicle development pipeline, highlighting areas where ASAM standards are used. |
| 13 | Here are the ASAM Domains, Standards that advance autonomous driving, particularly in (virtual) validation and verification, for the automotive industry. | ASAM DOMAINS  Standards that advance autonomous driving, particularly in (virtual) validation and verification, for the automotive industry. | Image of ASAM Domains from the source. | [IMAGE FOUND IN DOCUMENT] of ASAM Domains (Simulation, ECU Networks, etc.) |
| 14 | Before we proceed further, let us have a quick check of your understanding. Read the question carefully.   Click Submit to verify your answer.   Feedback:   Well done! That’s correct. ASAM stands for Association for Standardization of Automation and Measuring Systems.  Oops, That’s incorrect. The correct answer is Association for Standardization of Automation and Measuring Systems. | **Check Your Understanding**  What does ASAM stand for?  a) Automotive Safety and Measurement  b) Association for Standard Automotive Manufacturing  c) Association for Standardization of Automation and Measuring Systems  d) Advanced System Automation Method   Select the correct option and click Submit. | Allow the learners to choose a single option and activate the Submit button. Provide feedback based on the answer selected. | Multiple-choice question interface with options to select. |
| 15 | Now that, we discuss about the Evolution of SOVD Diagnostics, here's a brief introduction.  SOVD represents a transformative shift in vehicle diagnostics, moving from traditional, hardware-dependent systems to a more flexible, software-centric approach. | Evolution of SOVD Diagnostics  SOVD represents a transformative shift in vehicle diagnostics, moving from traditional, hardware-dependent systems to a more flexible, software-centric approach. | Animation showing the transition from older diagnostic tools to a modern, cloud-based SOVD system. | A split-screen animation showing the evolution of car diagnostic tools, from bulky hardware to sleek software interfaces. |
| 16 | We will further discuss about the standardization. SOVD standardization is crucial for ensuring interoperability and compatibility across different vehicle makes and models. | SOVD Standardization SOVD standardization is crucial for ensuring interoperability and compatibility across different vehicle makes and models. | Graphic showing different car brands and models connected to a standardized SOVD system. | An infographic showing different car brands connecting to a unified SOVD platform. |
| 17 | We will see the SOVD developments, so let's get started.  SOVD developments are continuously advancing to meet the increasing complexity of modern vehicles. | SOVD Developments  SOVD developments are continuously advancing to meet the increasing complexity of modern vehicles. | Animation showing new features and functionalities being added to the SOVD system. | A dynamic graphic illustrating the ongoing development and improvement of SOVD systems. |
| 18 | Let's dive in to the User Perspective and Future Outlook of SOVD SOVD offers numerous benefits to users, including faster diagnostics, reduced downtime, and improved accuracy. | SOVD User Perspective and Future Outlook SOVD offers numerous benefits to users, including faster diagnostics, reduced downtime, and improved accuracy. | Image of a technician efficiently diagnosing a car using SOVD. | Image of a happy car owner receiving quick and accurate diagnostic results. |
| 19 | Before we proceed further, let us have a quick check of your understanding. Read the question carefully.   Click Submit to verify your answer.   Feedback:   Well done! That’s correct.SOVD standardization is for interoperability and compatibility across different vehicle makes and models.  Oops, That’s incorrect. The correct answer is SOVD standardization is for interoperability and compatibility across different vehicle makes and models. | **Check Your Understanding**  What is the primary goal of SOVD standardization?  a) Increasing the cost of diagnostic equipment  b) Limiting access to vehicle data  c) Ensuring interoperability and compatibility  d) Slowing down diagnostic processes   Select the correct option and click Submit. | Allow the learners to choose a single option and activate the Submit button. Provide feedback based on the answer selected. | Multiple-choice question interface with options to select. |
| 20 | Before we wind up, here is a quick recap:  In this module, you have learned about:  • Key components of the SOVD landscape  • Evolution of SOVD diagnostics  • SOVD standardization principles  • SOVD developments  • User perspective and future outlook of SOVD  • Realization of today's diagnostic use cases with SOVD | **Summary**  In this module, you have learned about:  • Key components of the SOVD landscape  • Evolution of SOVD diagnostics  • SOVD standardization principles  • SOVD developments  • User perspective and future outlook of SOVD  • Realization of today's diagnostic use cases with SOVD | Sync OST with the audio. | Bulleted list of summary points, mirroring the learning objectives. |
| 21 | Now that you have understood the concept of the Service-Oriented Vehicle Diagnostics (SOVD), let us have an assessment.   Before you begin, read the instructions carefully.   Click Start once you are ready! | **Instructions**  1. There are 15 questions in total.   2. Each correct answer will earn you 10 points.   3. There is no penalty for incorrect answers.   4. To pass, you need to achieve a score of at least 90%.   5. Once you complete the assessment, your score will be revealed.   6. If your score falls below 90%, you will have three opportunities to retake the assessment.    Click Start to begin. | Allow the learners to select Start button. | Assessment instructions displayed on screen with a "Start" button. |
| 22 | Thank you for your time. We hope this module was helpful and informative. | **Thank You** | Positive, happy learner or instructor. | Image of a technician confidently using SOVD, overlaid with the words "Thank You." |