SOVD: Service-Oriented Vehicle Diagnostics - The Future Diagnostic Standard

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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, with the SOVD logo subtly displayed. Upbeat, tech-focused music plays in the background. | SOVD Logo with a futuristic car diagnostic interface. |
| 2 | Before we begin, let us watch a scenario. | **Scenario** Before we begin, let us watch a scenario. | The scene opens in a busy car repair shop in Mumbai. A young mechanic, Rohan, is struggling to diagnose a complex issue with a customer's car, while his mentor, Mr. Sharma, watches with a knowing smile. *Add the transition lines* | Image of a busy car repair shop in Mumbai. |
| 3 | Rohan: "Arrey, Sharma Ji, this error code is giving me a headache! I've checked everything, but the engine is still misfiring." | Rohan: "Arrey, Sharma Ji, this error code is giving me a headache! I've checked everything, but the engine is still misfiring." | Rohan scratches his head in frustration, wiping sweat from his brow. (frustrated) | Close-up shot of Rohan looking stressed and confused. |
| 4 | Mr. Sharma: "Patience, Rohan. Diagnostics isn't just about reading codes; it's about understanding the *system*." | Mr. Sharma: "Patience, Rohan. Diagnostics isn't just about reading codes; it's about understanding the *system*." | Mr. Sharma places a comforting hand on Rohan's shoulder, his expression calm and reassuring. (reassuring) | Image of Mr. Sharma smiling and placing his hand on Rohan's shoulder. |
| 5 | Rohan: "But Sharma Ji, this old system is so complicated! So many wires, so many ECUs…" | Rohan: "But Sharma Ji, this old system is so complicated! So many wires, so many ECUs…" | Rohan throws his hands up in exasperation, gesturing to the tangled mess of wires under the car's hood. (exasperated) | Wide shot of the engine bay, highlighting the complexity of the wiring. |
| 6 | Mr. Sharma: "That's where SOVD comes in, Rohan. It simplifies the whole process, making diagnostics faster and more efficient." | Mr. Sharma: "That's where SOVD comes in, Rohan. It simplifies the whole process, making diagnostics faster and more efficient." | Mr. Sharma pulls out a tablet and shows Rohan a clean, organized diagnostic interface. (enthusiastic) | Mockup of a SOVD diagnostic interface on a tablet. |
| 7 | Rohan: "SOVD? What's that, some new fancy software?" | Rohan: "SOVD? What's that, some new fancy software?" | Rohan leans in, intrigued by the tablet. (curious) | Close-up of Rohan's face, his eyes wide with curiosity. |
| 8 | Mr. Sharma: "It's more than just software; it's a new standard. It helps to standardize and access vehicle diagnostic data!" | Mr. Sharma: "It's more than just software; it's a new standard. It helps to standardize and access vehicle diagnostic data!" | Mr. Sharma taps the tablet, highlighting key features of the SOVD interface.*Add the transition lines* | Animation highlighting the benefits of SOVD. |
| 9 | As seen from the above scenario... |  | Fade out the scenario and transition to the learning objectives slide. |  |
| 10 | Let us quickly look at the objectives of this module.   By the end of this module, you will be able to:  • Define Service Oriented Vehicle Diagnostics (SOVD)  • Explain the evolution of SOVD diagnostics  • Identify key aspects of SOVD standardization  • Describe SOVD developments  • Assess the SOVD user perspective and future outlook | **Learning Objectives**  By the end of this module, you will be able to:   • Define Service Oriented Vehicle Diagnostics (SOVD)  • Explain the evolution of SOVD diagnostics  • Identify key aspects of SOVD standardization  • Describe SOVD developments  • Assess the SOVD user perspective and future outlook | Animate each objective as it is read out, using icons to represent each learning area (e.g., a definition icon, an evolution timeline, standardization symbol). | Icons representing each learning objective. |
| 11 | Let's begin by understanding the SOVD landscape, starting with ASAM. ASAM plays a crucial role in standardization. ASAM stands for Association for Standardization of Automation and Measuring Systems. | Understanding SOVD landscape ASAM in Nutshell: A member-driven nonprofit organization | The scene opens in a tech filled automated industry showing ASAM products. | An image that shows Association for Standardization of Automation and Measuring Systems ASAM. |
| 12 | Additionally, ASAM was founded in December 1998 and has grown to over 350 member companies worldwide. These standards define interfaces, protocols, file formats, and data models for vehicle development. | ASAM - Association for Standardization of Automation and Measuring Systems. Founded in December 1998. Member-Driven Organization - more than 350 member companies worldwide. | Display a world map highlighting the global presence of ASAM member companies. | World map with ASAM member locations highlighted. |
| 13 | We will now look at how ASAM works. Products are initiated and developed by ASAM members for the benefit of the entire industry. ASAM has developed over 38 standard specifications. | WORK MODEL - Products are initiated and developed by ASAM members to the benefit of the entire industry. 38+ Standard specifications developed by ASAM | A visual representation of the ASAM development process, showing members collaborating on standards. | Flowchart of ASAM's standard development process. |
| 14 | Additionally, ASAM standards cover various domains including Measurement & Calibration, Diagnostics, ECU Networks, Software Development, Test Automation, Data Management & Analysis and Simulation. *Click each domain to know more.* | ASAM DOMAINS Click each domain to know more. | *<Create an interactive infographic with clickable tabs for each domain. Each tab shows a separate slide on click. Only one tab is active at a time. Guide the learner through each item.*> | Interactive infographic showing ASAM domains: Measurement & Calibration, Diagnostics, ECU Networks, Software Development, Test Automation, Data Management & Analysis and Simulation. |
| 15 | Now that we have clicked the first tab, let's learn about Measurement and Calibration. These standards are designed for working with ECU variables and parameters. | Measurement & Calibration Standards for working with ECU variables and parameters | Show an ECU, variables and parameters. | Animated graphic showing ECU and its variables. |
| 16 | Now that we have clicked the Diagnostics, let's learn about Diagnostics. These standards are designed for describing and testing the diagnostic subsystems of devices. | Diagnostics Standards for describing and testing the diagnostic subsystems of devices. | Show a vehicle being scanned for diagnostics. | Animated graphic showing vehicle diagnostics in progress. |
| 17 | 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 creates standards. Oops, That’s incorrect. The correct answer is ASAM creates standards. | **Check Your Understanding**  What does ASAM stand for? a) Automotive System Architecture Management b) Association for Standardization of Automation and Measuring Systems c) Advanced System Automation Methodology d) Automotive Software Architecture Model  Select the correct option and click Submit. | *<Allow the learners to choose a single option and activate the Submit button.*> | Multiple choice question related to ASAM's acronym. |
| 18 | Now, let's move on to the evolution of SOVD diagnostics! Let's dive in! | Evolution of SOVD Diagnostics | The scene opens in a tech filled automated industry showing the evolution process. | An image showing the evolution of SOVD diagnostics. |
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| 20 | Before we wind up, here is a quick recap:  In this module, you have learned about:  • Definition of Service Oriented Vehicle Diagnostics (SOVD) • Evolution of SOVD diagnostics • Key aspects of SOVD standardization • SOVD developments • The SOVD user perspective and future outlook | **Summary**  In this module, you have learned about:  • Definition of Service Oriented Vehicle Diagnostics (SOVD) • Evolution of SOVD diagnostics • Key aspects of SOVD standardization • SOVD developments • The SOVD user perspective and future outlook | *<Sync OST with the audio.*> | Bullet points summarizing the key learning objectives, with relevant icons. |
| 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! | **Final Assessment**  **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.*> | A clean assessment page with clear instructions. |
| 22 | Thank you for your time. We hope this module was helpful and informative. | **Thank You** | A diverse group of learners smiling and giving a thumbs up. | Image of happy learners. |