Service-Oriented Vehicle Diagnostics (SOVD): 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, logo of a car manufacturer, upbeat music. | Car dashboard with a welcome message on the screen. |
| 2 | Before we begin, let us watch a scenario. | **Scenario** Before we begin, let us watch a scenario. | *add the transition lines* A young mechanic, Priya, is troubleshooting a car issue with outdated tools. She is visibly frustrated. | Image of a frustrated mechanic, Priya, surrounded by old diagnostic tools. |
| 3 | Priya: (Sighs) This old diagnostic system is so slow! It takes forever to pinpoint the problem.   Rajesh: (Entering the garage) What's wrong, Priya? Still wrestling with that engine? | Priya: This old diagnostic system is so slow! Rajesh: What's wrong, Priya? Still wrestling with that engine? | Priya sighs dramatically and throws a wrench down gently. Rajesh enters, concerned. (smiling) | Image of Priya and Rajesh in a garage setting. |
| 4 | Priya: Yeah, Rajesh. This car's throwing an error code, but the system is giving me vague data. It's like trying to find a needle in a haystack.   Rajesh: Have you tried using the new SOVD system? I heard it's much more efficient. | Priya: This car's throwing an error code, but the system is giving me vague data.  Rajesh: Have you tried using the new SOVD system? | Priya is wiping her forehead with a rag, exasperated. Rajesh points towards a modern diagnostic tool. (curious) | Close-up of the error code on the old system, then a shot of Rajesh pointing to a newer system. |
| 5 | Priya: SOVD? I've heard of it, but haven't had the chance to use it yet. Is it really that much better?   Rajesh: Absolutely! It uses a service-oriented architecture. Much faster and gives way more precise diagnostic results. | Priya: SOVD? Is it really that much better? Rajesh: Absolutely! | Priya looks skeptical. Rajesh nods enthusiastically. (doubtful, enthusiastic) | Side-by-side comparison of the old and new diagnostic systems. |
| 6 | Priya: Hmmm, maybe I will give it a try after this. I just want to fix the car and go home.   Rajesh: It will save your time! See you later. | Priya: Hmmm, maybe I will give it a try after this.   Rajesh: It will save your time! | Priya still looks unsure, but intrigued. Rajesh smiles and encourages her. (thinking, supporting) *add the transition lines* | Priya looking at the SOVD system with interest. Rajesh walking away. |
| 7 | As seen from the above scenario... |  | The scenario fades out. |  |
| 8 | Let us quickly look at the objectives of this module.   By the end of this module, you will be able to:  • Define SOVD and its key features  • Explain the evolution of SOVD diagnostics  • Identify the SOVD standardization landscape  • Describe the user perspective and future outlook of SOVD  • Recognize today's diagnostic use cases with SOVD | **Learning Objectives**  By the end of this module, you will be able to:  • Define SOVD and its key features  • Explain the evolution of SOVD diagnostics  • Identify the SOVD standardization landscape  • Describe the user perspective and future outlook of SOVD  • Recognize today's diagnostic use cases with SOVD | Animate each objective as it's being read. | Image representing each learning objective (e.g., SOVD definition, timeline, standardization symbols, a person looking into the future). |
| 9 | Let's start with understanding the SOVD landscape. We will first discuss ASAM in a nutshell.  ASAM - Association for Standardization of Automation and Measuring Systems. Click each tab to learn more. | Understanding SOVD landscape  ASAM - Association for Standardization of Automation and Measuring Systems.  Click each tab to learn more. | *<Create an interactive infographic with clickable tabs for each of the following sub-topics: ASAM, ASAM Diagnostic Portfolio, Understanding MCD-2 D & MCD-3D, SOVD Standardization Landscape, Details About ASAM. Each tab shows a separate slide on click. Only one tab is active at a time. Guide the learner through each item.*> | Interactive infographic with tabs labeled "ASAM," "ASAM Diagnostic Portfolio," etc. |
| 10 | Now that we know about ASAM in nutshell, Let's see what it is.   ASAM is a member-driven nonprofit organization founded in December 1998, with more than 350 member companies worldwide. | ASAM in Nutshell  A member-driven nonprofit organization founded in December 1998, with more than 350 member companies worldwide. | Highlight key phrases as they're spoken. Display ASAM logo. | Image of the ASAM logo and a global map showing the locations of member companies. |
| 11 | Additionally, ASAM standards define interfaces, protocols, file formats, and data models for development and testing throughout the vehicle development pipeline.   Products are initiated and developed by ASAM members to benefit the entire industry. | ASAM in Nutshell  ASAM standards define interfaces, protocols, file formats and data models for development and testing throughout the vehicle development pipeline.  Products are initiated and developed by ASAM members to the benefit of the entire industry. | Animation showing data flowing through a vehicle development pipeline. | Graphic illustrating the vehicle development pipeline, highlighting interfaces, protocols, etc. |
| 12 | Next, there are 38+ Standard specifications developed by ASAM which include standards that advance autonomous driving, particularly in (virtual) validation and verification, for the automotive industry. | ASAM in Nutshell  38+ Standard specifications developed by ASAM  Standards that advance autonomous driving. | Show a counter increasing to 38, followed by images of autonomous vehicles. | Visual representation of autonomous vehicles and related technologies. |
| 13 | Next, let's see the ASAM Domains.   It involves ECU Networks, Measurement & Calibration, Diagnostics, Software Development, Test Automation, Data Management & Analysis, Simulation. | ASAM in Nutshell  ASAM DOMAINS  ECU Networks, Measurement & Calibration, Diagnostics, Software Development, Test Automation, Data Management & Analysis, Simulation. | Use icons to represent each domain as it's mentioned. | Infographic showing the ASAM domains connected in a circular manner. |
| 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 System Automation Management  b) Association for Standard Automotive Manufacturing  c) Association for Standardization of Automation and Measuring Systems  d) Advanced System Automation and Modeling   Select the correct option and click Submit. | *<Allow the learners to choose a single option and activate the Submit button.*> | A multiple-choice question about the meaning of ASAM. |
| 15 | Now that we understand the ASAM and SOVD basics, let's proceed to evolution of SOVD diagnostics.   Let's discuss about evolution of SOVD Diagnostics. | Evolution of SOVD Diagnostics | Show timeline of diagnostic systems, starting with older systems and progressing to SOVD. | Image of the evolution of vehicle diagnostics, from early tools to modern SOVD systems. |
| 16 | Before we wind up, here is a quick recap:  In this module, you have learned about:  • Definition and key features of SOVD • Evolution of SOVD diagnostics • SOVD standardization landscape • User perspective and future outlook of SOVD • Today's diagnostic use cases with SOVD | **Summary**  In this module, you have learned about:  • Definition and key features of SOVD • Evolution of SOVD diagnostics • SOVD standardization landscape • User perspective and future outlook of SOVD • Today's diagnostic use cases with SOVD | *<Sync OST with the audio.*> | Bullets summarizing each of the learning objectives. |
| 17 | Now that you have understood the concept of the 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 with a "Start" button. |
| 18 | Thank you for your time. We hope this module was helpful and informative. | **Thank You** | Positive, happy instructor waving goodbye. | Image of a smiling instructor. |