SOVD: Understanding Service-Oriented Vehicle Diagnostics and the Future 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, music fades in and loops gently. | Company logo with animated vehicle diagnostics theme. |
| 2 | Before we begin, let us watch a scenario. | **Scenario** Before we begin, let us watch a scenario. | A split-screen shows two different scenarios of vehicle diagnostics: classic and modern. <> (add the transition lines) | Image: Side-by-side comparison of an older mechanic using complex tools versus a modern technician using a tablet. |
| 3 | **Radha:** Arrey Mohan! My car is showing a check engine light again. Can you take a look? **Mohan:** (Sighs) Bring it in, Radha. But you know how long these older systems take. Gotta connect all the wires and run the manual tests. | **Radha:** Radha **Mohan:** Mohan | (Mohan wiping grease off his hands, looking tired). Radha looks concerned and impatient. <> (add the transition lines) | Image: Mohan's traditional garage with lots of equipment. |
| 4 | **Radha:** But last time it took you almost a day! **Mohan:** These old ECUs are complicated, Radha. Each one needs its own special tool. It's not as easy as these new-fangled cars. (grumbling) <> (add the transition lines) | **Radha:** Radha **Mohan:** Mohan | Mohan connecting multiple wires to an older car's diagnostic port, looking frustrated. Radha tapping her foot. <> (add the transition lines) | Image: Close-up of tangled wires and outdated diagnostic tools. |
| 5 | **(Scene changes to a modern car service center)** **Priya:** Welcome, Mrs. Sharma. The diagnostic report for your car is ready. **Mrs. Sharma:** Oh, that's quick! What did you find? | **Priya:** Priya **Mrs. Sharma:** Mrs. Sharma | Priya gestures towards a tablet displaying diagnostic data. Mrs. Sharma looks relaxed and interested. <> (add the transition lines) | Image: A modern, clean car service center with digital displays. |
| 6 | **Priya:** It was a minor issue with the ADAS calibration. The SOVD system flagged it immediately and the update was pushed over the air. All done in under an hour!  **Mrs. Sharma:** Fantastic! That's so much more efficient than my old car. | **Priya:** Priya **Mrs. Sharma:** Mrs. Sharma | Priya handing the tablet to Mrs. Sharma, who reviews the diagnostic information. (smiling) <> (add the transition lines) | Image: Close-up of the tablet screen displaying clear diagnostic information. |
| 7 | As seen from the above scenario... SOVD makes vehicle diagnostics faster, more efficient, and easier to manage! | As seen from the above scenario... | Highlight key differences in the scenarios: speed, efficiency, technology. | Image: Split screen contrasting old and new diagnostic methods. |
| 8 | Let us quickly look at the objectives of this module.   By the end of this module, you will be able to:  • List the key features of SOVD  • Explain the evolution of vehicle diagnostics  • Apply SOVD standards in vehicle diagnostics  • Analyze the benefits of SOVD from a user perspective | **Learning Objectives**  By the end of this module, you will be able to:   • List the key features of SOVD  • Explain the evolution of vehicle diagnostics  • Apply SOVD standards in vehicle diagnostics  • Analyze the benefits of SOVD from a user perspective | Animate objectives visually, highlighting each as it's mentioned. | Infographic: A visual representation of each learning objective using icons. |
| 9 | Let's start with Understanding the SOVD Landscape.   This includes ASAM in a Nutshell, ASAM Diagnostic Portfolio, Understanding MCD-2 D & MCD-3D, SOVD Standardization Landscape, and details about ASAM.  Click each tab to learn more. | Understanding SOVD Landscape  • ASAM in a Nutshell  • ASAM Diagnostic Portfolio  • Understanding MCD-2 D & MCD-3D  • SOVD Standardization Landscape  • Details About ASAM  Click each tab to learn more. | Create an interactive infographic with clickable tabs for each sub-part. Each tab shows a separate slide on click. Only one tab is active at a time. Guide the learner through each item. | Interactive graphic with five tabs labeled as per the On-Screen Text. |
| 10 | Let's discuss ASAM in a Nutshell.  ASAM stands for Association for Standardization of Automation and Measuring Systems. It's a member-driven non-profit organization founded in December 1998 with over 350 member companies worldwide. | ASAM in a Nutshell ASAM: Association for Standardization of Automation and Measuring Systems.  Member-driven, nonprofit.  Founded: Dec 1998.  350+ members. | Highlight "ASAM" and its full form. Transition to an image representing global collaboration. | Image: ASAM logo with a world map in the background showing member locations. |
| 11 | Next, 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 has developed over 38 standard specifications. | ASAM Standards Defines interfaces, protocols, and data models.  Developed by members for industry benefit.  38+ standard specifications. | Visual representation of data flowing through a vehicle development pipeline. | Infographic: Vehicle development pipeline highlighting key areas where ASAM standards apply. |
| 12 | Now that we know about ASAM, let's check the ASAM DOMAINS. These include Measurement & Calibration, Diagnostics, ECU Networks, Software Development, Data Management & Analysis, Test Automation, and Simulation. | ASAM DOMAINS • Measurement & Calibration • Diagnostics • ECU Networks • Software Development • Data Management & Analysis • Test Automation • Simulation | Show each domain as a clickable icon with a brief description popping up on hover. | Interactive image: A circular diagram showing the seven ASAM domains with icons. |
| 13 | Additionally, Standards for working with ECU variables and parameters are important.   Standards for describing and testing ECU networks is very useful.   Also standards for working with test systems, storing, retrieving, and analysing large vehicle data from simulation, testing, production, and operation are beneficial. | Standards ECU variables & parameters. ECU network description & testing. Test systems standards. Data storage & analysis standards. | Emphasize keywords in each point visually. | Image: Icons representing each standard with brief text descriptions. |
| 14 | Also standards for describing and testing the diagnostic subsystems of devices are important, and standards supporting the ECU software development process are useful. | Standards (contd.) Diagnostic subsystems standards. ECU software development standards. | A visual connector linking all the standards together, showing their interconnectedness. | Image: A network diagram showing how different ASAM standards are interconnected. |
| 16 | Finally, We will now summarize what we have learnt.   In this module, you have learned about:  • Key features of SOVD  • Evolution of vehicle diagnostics  • Application of SOVD standards in vehicle diagnostics  • Benefits of SOVD from a user perspective | **Summary**  In this module, you have learned about:  • Key features of SOVD  • Evolution of vehicle diagnostics  • Application of SOVD standards in vehicle diagnostics  • Benefits of SOVD from a user perspective | Sync OST with the audio. | Image: A stylized summary graphic. |
| 18 | Thank you for your time. We hope this module was helpful and informative. | **Thank You** | Positive, happy learner or instructor. | Image: Smiling technician giving a thumbs-up. |