

ODX

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format or Remote Format
Duration:	Classroom: 1 day Remote: 5 hours
Target Group:	Project Manager, ECU Diagnostic Developer
Prerequisites:	Knowledge on UDS and diagnostic development
Goal:	Overview of ODX, ODXStudio is shown as Viewer for ODX data

1. Vehicle and Fleet Diagnostics

- > Overview of vehicle and fleet diagnostics today

2. Parameterization with ODX

- > Tester Parameterization

3. Vehicle ODX

- > General overview of all sub-models (ODX CATEGORIES)
- > Content of a vehicle ODX, Base Variants, ECU Variants, Functional Groups

4. Diagnostic Services

- > General concept
- > REQUESTs, POS-RESPONSEs

5. Data Organization

- > TABLEs
- > Value Inheritance, Import of ECU-SHARED-DATA
- > odx-links, snrefs

6. Diagnostic Authoring with ODXStudio

- > ODXStudio is used by the trainer to repeat the ODX details with the participants
- > ODXStudio is used as viewer

7. Generating ECU ODX

- > Diagnostic Authoring with CANdelaStudio
- > ODX export

8. Building Vehicle ODX

- > Building Vehicle ODX with ODXStudio from generated ECU ODX by CANdelaStudio
- > Add Vehicle Info Spec with ODXStudio Plugin

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9. Software Update

- > Software Update on ECUs
- > ODX-F
- > ODX-F Authoring

10. Parameters and DOPs

- > Typical Parameters, Byte and bit position
- > DOPs

11. Fault Memories

- > DTCs
- > Extended Data and Snapshots

12. Introducing ODX | Optionally, material is distributed in the Course

- > Authoring Guidelines
- > Hints for introducing ODX in processes
- > ODX and MCD-3D

13. Technical Data Model Description with UML and XML | Optionally, material is distributed in the Course

- > How UML and XML are used to describe the ODX standard and ODX files
- > General ODX data model properties, exercises