



# Agenda VectorAcademy

## INTRODUCTION TO ODX

<b>Duration:</b>	1 Day
<b>Target Group:</b>	Project manager, ECU diagnostic developer
<b>Prerequisites:</b>	Knowledge on diagnostic development and KWP2000 or UDS
<b>Goal:</b>	Overview of ODX

### 1 | INTRODUCTION | 1.0 H

- ▶ Motivation, Starting point for the ODX standardization
- ▶ Expectations to ODX

### 2 | UML AND XML BASICS | 1.0 H

- ▶ UML class diagrams, Some basics to XML
- ▶ UML and XML applied in ODX, Exercises

### 3 | ODX SUB-MODELS | 0.5 H

- ▶ General overview of all sub-models (ODX CATEGORIES)
- ▶ PDX files

### 4 | GENERAL DATA MODEL FEATURES | 0.5

- ▶ Identification of data, Referencing within data
- ▶ Translation feature, Exercises

### 5 | DIAG-LAYER-CONTAINER | 1.0 H

- ▶ General structure and usage of DIAG-LAYERS (BASE-VARIANTs/ECU-VARIANTs, ...)
- ▶ Structure of DIAG-SERVICES
- ▶ Exercises



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## 6 | ORGANISATION OF ODX DATA | 0.5 H

- ▶ Using TABLEs for DIDs
- ▶ Referencing via odx-links
- ▶ Redefinition of communication parameter values
- ▶ Value Inheritance and ShortName references (snrefs)

## 7 | ASAM CHECKER RULES | 0.5 H

- ▶ Motivation for checker rules
- ▶ Exemplary consideration of some checker rules

## 8 | AUTHORIZING GUIDELINES | 0.5 H

- ▶ Motivation and general using of authoring guidelines
- ▶ Short overview of ODX-RS (Recommended Style)

## 9 | OBD AND ODX | 0.5 H

- ▶ Legislated On-Board Diagnostics
- ▶ Overview of the ODX authoring guidelines for OBD data (ISO 22901-2)

## 10 | ODX IN PRACTICE | 0.5 H

- ▶ Possibilities to create ODX data
- ▶ Questions which are important to consider when dealing with ODX
- ▶ ODX and MCD-3D

## 11 | QUESTIONS, FEEDBACK, SUGGESTIONS

- ▶ Clarify questions and open discussion