



# Agenda VectorAcademy

## XCP FUNDAMENTALS SEMINAR

<b>Duration:</b>	1 Day
<b>Target Group:</b>	CANape Users, Software Engineers
<b>Prerequisites:</b>	None
<b>Goal:</b>	Knowledge about the XCP Mechanisms

### 1 | INTRODUCTION TO FUNDAMENTALS OF THE XCP PROTOCOL | 1.0 H

- ▶ Topology
- ▶ Communication forms
- ▶ Layout of a XCP frame

### 2 | MODELS FOR SYNCHRONOUS DATA TRANSFER | 2.5 H

- ▶ Static and dynamic DAQ lists
- ▶ Organization of the ODT lists
- ▶ Resume Mode (Cold start measurement)
- ▶ Acquisition of measurement data with time stamp

### 3 | MODELS FOR CALIBRATION | 0.5 H

- ▶ Sector, segments and pages
- ▶ Data page freezing
- ▶ Calibration data page switching

### 4 | INTERFACE SPECIFICATIONS | 0.5 H

- ▶ Structure of an A2L file
- ▶ Seed&Key.DLL
- ▶ Checksum.DLL

### 5 | SPECIAL ASPECTS OF THE XCP TRANSPORT LAYER | 1.5 H

- ▶ XCP on Ethernet
- ▶ XCP on CAN
- ▶ XCP on FlexRay



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## 6 | EXAMPLE COMMUNICATION SEQUENCES | 0.5 H

- ▶ Establishing communication
- ▶ Initialization of DAQ lists
- ▶ Calibration processes

## 7 | QUESTIONS, FEEDBACK, SUGGESTIONS | 0.5 H