



Agenda VectorAcademy

XCP FUNDAMENTALS SEMINAR

Duration:	1 Day
Target Group:	CANape Users, Software Engineers
Prerequisites:	None
Goal:	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



Agenda VectorAcademy

6 | EXAMPLE COMMUNICATION SEQUENCES | 0.5 H

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

7 | QUESTIONS, FEEDBACK, SUGGESTIONS | 0.5 H