

## CANape

### Agenda VectorAcademy

<b>Delivery Format:</b>	This Course is offered in Classroom Format
<b>Duration:</b>	3 days
<b>Target Group:</b>	CANape Users
<b>Prerequisites:</b>	None
<b>Goal:</b>	Usage of CANape as MCD tool for ECU optimization

#### 1. Introduction to the measurement technique in CANape

- > General information about the measuring techniques available in CANape
- > Comparison of CAN-Monitoring versus measuring data using the XCP protocol
- > XCP Fundamentals – Synchronous Data Transfer Concept
- > Discussion of performance of XCP

#### 2. Measuring with CANape

- > Introduction to the CANape project structure
- > Introduction to the device configuration
- > Creating a new measurement configuration
- > Configuring different types of display windows
- > Measurement analysis
- > Configuring of the recorders / Logging of measurement data

#### 3. Setting up a new project from scratch

- > Creating a new CANape project (canape.ini versus CNA-File)
- > Setting up new devices / description files
- > Configuring the Vector Hardware Interfaces / VNxx

#### 4. Offline evaluation of measurement data / Data Mining

- > Loading measurement files to display recorded measurement signals
- > Comparison of measurement data from different measurement files
- > Data Mining Concept (Automated analysis of large data sets)
- > Using functions for offline evaluation
- > Using functions for online measurement

#### 5. Calibrating the ECU

- > Calibration concepts
- > Usage of calibration window
- > Data Management of parameter sets
- > Comparison of parameter sets using vCDMstudio

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### 6. Panels in the MCD Environment

- > Creating and using
- > Visualization of measurement and calibration objects
- > Starting scripts

### 7. Diagnostic Feature Set

- > Short introduction to the basics of diagnostics and CANdelaStudio
- > Fault memory window and diagnostics window
- > Executing diagnostic services via scripts

### 8. Functions versus scripts

- > Introduction to the function editor
- > Introduction to the programming language CASL
- > Creating and calling scripts