

# Training Classes for Measuring and Calibration

Get to know the Vector system solution for measurement, calibration and diagnostics

## CANape Fundamentals Workshop

Duration: 3 Days

Prerequisites: none

### Content:

In this workshop you get to know CANape as a tool for measuring and evaluation as well as for calibration and diagnostics.

After a short introduction to the fundamentals of the XCP protocol, you will learn how to configure the display windows in order to display measurement data from different sources. Then the data mining user interface will be explained so that you can perform an automated analysis of large amounts of measurement data. You will use CANape as a calibration tool and you will learn to use the diagnosis window of CANape.

### Agenda:

- > Introduction to the CCP and XCP Protocol
- > Introduction to CANape
- > Creating a New Project
- > Acquiring and Logging of Measurement Data
- > Offline Evaluation of Measurement Data
- > Data Mining
- > Functions for Online and Offline Applications
- > Panels in the MCD Environment
- > Scripts for Reproducible Sequences
- > Application Concepts
- > Calibration
- > Data Management of Parameter Set Files
- > Diagnostic Feature Set

## XCP Fundamentals Seminar

Duration: 1 Day

Prerequisites: none

### Content:

This seminar explains the fundamentals of the XCP protocol. After an introduction you get to know models for synchronous data transfer and models for calibrating. Additionally the special aspects of the XCP Transport Layer are covered. Practical example communication sequences complete the seminar.

### Agenda:

- > Introduction to Fundamentals of the XCP Protocol
- > Models for Synchronous Data Transfer
- > Models for Calibrating
- > Interface Specifications
- > Special Aspects of the XCP Transport Layer
- > Example Communication Sequences

## vSignalizer Workshop

Duration: 1 Day

Prerequisites: none

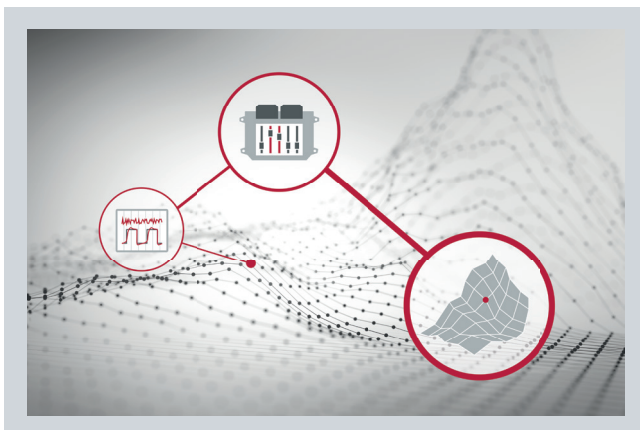
### Content:

Get to know vSignalizer as an efficient analysis tool for measurement data of various origins. Cope with complex analysis tasks using built-in functions as well as your own implementations.

The data mining function allows the automated analysis of large amounts of measurement data. The workshop is topped off by the new printing and reporting functions of vSignalizer.

### Agenda:

- > Offline Display of Measurement Files
- > Comparison of Measurement Files
- > Data Mining
- > Creating Virtual Measurement File Channels
- > Data Mining with Functions
- > Automated Analysis
- > Printing
- > Questions, Feedback, Suggestions



**Vector Calibration Data Management Seminar**

Duration: 1 Day

Prerequisites: Experience in Automotive ECU Application

**Content:**

Solid management of all calibration data is a precondition for quality and efficiency in the ECU calibration process. Specifications, software sets, description files and documentation must be accessible at all times.

In this seminar you will get to know how vCDM can help you with these tasks. The focus is on the practical calibration process.

**Agenda:**

- > Start with vCDM
- > Import and Modify Calibration Data
- > Further Development of Datasets
- > Export and Report
- > Questions and Feedback

**What you can expect from us**

We conduct our training courses in air-conditioned, spacious, modern and well-furnished classrooms that are equipped with numerous demonstration objects. Each classroom has seven comfortable learning or work stations with space for two participants each. The learning spaces are equipped with high-performance computers. The latest software for development, analysis, measurement and diagnostics as well as hardware designed for the exercises complete the working environment.

**Dates and Prices**

You can find scheduled dates and available places on our website. Irrespective of these planned dates it is always possible to arrange an individual training at your company site – please contact us.

Our prices are dependent on the training and the number of booked modules. You can compose your individual training on our website and will receive the price according to your choices.

**Registration and Information**

You can register online, via E-mail, Fax or regular mail. Registrations are accepted in the order in which they are received. If your reservation has been made successfully, we will return a confirmation of your registration.

If you have any questions or wish to register by phone, please contact us:

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- > Fax: +49 711 80670-333
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Our website always offers the latest information on workshops, contents and scheduled dates.

[www.vector-academy.com](http://www.vector-academy.com)