

CANalyzer Workshops

Learn the practical use of CANalyzer as measurement, analysis and testing tool

CANalyzer Workshop

Duration: 1-5 Days

Prerequisites: none

Content:

This workshop is divided into four separate modules, which together provide you with a comprehensive knowledge about the tool CANalyzer. In the first two modules you will learn the fundamentals of CAN and the functionality and practical use of CANalyzer as measurement, analysis and testing tool. In the third module, you will apply your acquired knowledge to perform extensive measurements and analysis on a real CAN network. The fourth module covers the practical use of the programming language CAPL within the CANalyzer environment.

Modules:

- > CAN Fundamentals | 1 Day
- > Introduction to CANalyzer | 2 Days
- > CANalyzer in Practice | 1 Day
- > Introduction to CAPL | 1 Day

CANalyzer.Ethernet

Duration: 1-3 Days

Prerequisites: Basic understanding of serial data transmission and of CANoe/CANalyzer

Content:

This workshop gives you a fundamental knowledge of Ethernet and IP based communication in motor vehicles. Additionally you will get an overview of relevant protocols and their application areas. In practical exercises you will measure, analyze and simulate with CANoe/CANalyzer. Ethernet. These exercises focus on the extended functions of Ethernet and IP based communication and therefore require basic knowledge of CANoe/CANalyzer.

Modules:

- > Ethernet and IP Fundamentals | 1 Day
- > Introduction to CANoe/CANalyzer for Ethernet and IP | 1 Day
- > Application oriented Protocols in CANoe for Ethernet and IP | 1 Day

CANalyzer.FlexRay

Duration: 1-4 Days

Prerequisites: none

Content:

FlexRay in theory and practice: This workshop teaches you the fundamentals of the time-triggered bus system FlexRay. You will also learn about the goals and potential uses of FlexRay as well as the basic principles and technical terms of the protocol. Using the Vector tool CANoe/CANalyzer.FlexRay you will work on a real cluster and conduct measurements, evaluations and simulations. Practical work using a test ECU round out this workshop.

Modules:

- > FlexRay Fundamentals | 1 Day
- > Introduction to CANoe/CANalyzer.FlexRay | 1 Day
- > Introduction to CANoe Models for FlexRay | 1 Day
- > CANoe.FlexRay in Practice | 1 Day

CANalyzer.LIN Workshop

> Duration: 1-3 Days

> Prerequisites: none

Content:

In this workshop you will learn the theoretical fundamentals of the LIN bus, as well as handling of CANoe/CANalyzer.LIN in the analysis and simulation of LIN networks. Module 1 is concerned with all the aspects of LIN specification LIN2.1. In Module 2 you become familiar with the CANoe/CANalyzer.LIN tools and deepen your theoretical knowledge in extensive exercises with real hardware. In Module 3 we teach you how to use the integrated CAPL language to simulate, analyze and disturb the bus in specific ways. Furthermore, the LIN Conformance Test that is integrated in the tool is presented.

Modules:

- > LIN Fundamentals | 1 Day
- > Introduction to CANoe/CANalyzer.LIN | 1 Day
- > Extended Functionalities of CANoe.LIN | 1 Day

CANalyzer.J1939 Workshop

- > Duration: 1-2 Days
- > Prerequisites: none

Content:

This Workshop will provide you with comprehensive basic knowledge of the J1939 protocol. The first module will focus on the correct usage of the SAE-J1939 documents, introduce protocol-specific expressions and properties and explain the general philosophy of CAN based layer-7-protocols. The second module teaches you - by means of practical examples - how to use the analysis and simulation tool CANoe/CANalyzer in J1939 based networks. Main aspects are the simulation of ECUs and testing conformity to the standard. The emphasis is on introducing and utilizing expanded functions of CANoe/CANalyzer.J1939 (e.g. J1939 Scanner, CAPL Generator, Node Filter, etc.).

Modules:

- > SAE J1939 Fundamentals | 1 Day
- > Introduction to CANalyzer/CANoe.J1939 | 1 Day

CANalyzer Diagnostics Workshops

- Duration: 1 Day
Prerequisites: none

Content:

First the workshop provides you with a fundamental knowledge of diagnostics. Afterwards you learn about the many different uses of CANoe and CANalyzer as a diagnostic tool. The use of basic diagnostics is explained as well as the use of a diagnostic description file. Additionally this knowledge is reinforced by practical exercises. Another focus is the use of CAPL programs and the development of corresponding panels for diagnostic applications.

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 planned 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 Ms. Heller or Ms. Witulski:

- > Phone: +49 711 80670-5770
- > Fax: +49 711 80670-333
- > E-mail: academy@de.vector.com

Our website always offers the latest information on workshops, contents and scheduled dates.

www.vector-academy.com

