

Introduction to CAN and CANalyzer

Agenda VectorAcademy

Duration:	2 Days
Target Group:	CAN Users (controller development, motor vehicle electrical, test planning and execution)
Prerequisites:	None
Goal:	Knowledge about the CAN network and characteristics of the CAN and CAN FD protocol. Introduction to CANalyzer including the use of the analysis functionality as well as saving measurement data, perform analysis of saved data, and use CANalyzer to send CAN messages

1 | CAN Network

- > Physical layer of CAN networks
- > Information transport: Bus access rules, message prioritization
- > Message structure, data content
- > Data protection and error handling
- > Differences with the new CAN FD standard

2 | Overview

- > Application area of CANalyzer
- > Components and configuration of a CANalyzer measurement system

3 | Data Interpretation

- > Messages, signals and network nodes
- > CAN database and CANdb++ Editor

4 | Measurement and Analysis

- > Introduction into the graphical user interface
- > Dataflow and measurement setup
- > Data tracing, statistic monitoring and signal analysis
- > Configuration of analysis windows and function blocks

5 | Filters

- > Applying filters to reduce the volume of data
- > Recording the data traffic, logging file formats
- > Usage of specific trigger conditions

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6 | Data Logging

- > Recording data traffic and supported logging file formats
- > Employment of specific trigger conditions
- > Import and export of data into and out of several analysis windows
- > Data conversion
- > Offline analysis

7 | Send Options

- > Interactive Generator Block
- > Visual Sequence
- > Replay Block

8 | Display Panels

- > Creation and configuration of Panels
- > Display signal information

9 | Diagnostics

- > Use of diagnostic description files in CANalyzer
- > OBD II standard diagnostics requests