

Introduction to CANalyzer

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom or Remote Format
Duration:	Classroom: 2 days Remote: 12 hours
Target Group:	New CANalyzer users working with analysis of ECU networks
Prerequisites:	Basic understanding of the CAN Protocol
Goal:	Understanding of the interpretation of data and of CANalyzer as a measurement tool. Using the analysis functionality as well as saving measurement data (logging). Use of the send options and the offline analysis of logged data. Overview of the stimulus features in CANalyzer. Introduction to CAPL; using the CAPL browser and learning the CAPL syntax. Creating and using Control Panels and System Variables.

1. CAN Data Traffic

- > CAN Fundamentals
- > Data Frames and Interpretation
- > CAN databases and CANdb++ Editor

2. Introduction

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

3. Measurement and Analysis

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

4. Data Logging

- > Applying filters to reduce the volume of data
- > Data history settings
- > Recording data traffic and supported logging file formats
- > Employment of specific trigger conditions

5. Offline Analysis

- > Analysis of logged data using the offline mode

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6. Stimulus Options

- > Interactive Generator Block
- > Replay Block
- > Visual Sequences

7. Introduction to CAPL Programming

- > Integrating CAPL programs in CANalyzer
- > Event procedure concept
- > CAPL-Browser, Compiling and troubleshooting, CAPL and CAN databases

8. Features and Functions

- > System and event procedures
- > Data types, arrays, initialization, control structures
- > Arithmetic and logical operations, intrinsic functions
- > Access to message selectors, file functions

9. Program Development

- > Evaluating messages
- > Configuring and sending messages
- > Timer, cycle times and timeout monitoring

10. Panels & System Variables

- > Creating Control Panels
- > Creating System Variables and using these in CAPL