CANalyzer for CAN

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format at Vector
Duration:	5 days
Target Group:	CANalyzer Users (controller development, motor vehicle electrical, test planning and execution)
Prerequisites:	None
Goal:	To learn about the properties of the CAN and CAN FD protocol, to gain knowledge of CANalyzer's areas of application, and to measure, analyze and stimulate with CANalyzer and CAPL. Work on real ECUs and multibus systems.

1. CAN Fundamentals

- Motivation
- Physical Layer
- Bus access methods
- Characteristics of the CAN Protocol
- Error treatment
- CAN FD
- CAN Network Description

2. Measurement and Analysis

- Start-up of CANalyzer for CAN
- Measurement and Analysis
- Data Logging and Offline Analysis
- Diagnostics
- Send Options
- Panels
- In-depth modules

3. Introduction to CAPL

- CAPL Browser
- Program development
- Features and functions
- Event Handling
- Message-oriented CAPL

4. CANalyzer in Practice

- Measuring Bus Communication of Automotive ECUs
- Introduction to OSEK/VDX Network Management
- Analysis of Multiple Networked CAN Bus Systems
- Extensive Data Logging and its Evaluation (Offline Analysis)
- Stimulation of ECUs