

# J1939 Workshop

Agenda VectorAcademy

**Duration:** 2 Days

## 1. Introduction to CAN

- > Standard & Implementation
- > Physical Layer
- > Communication
- > Bus Access
- > Data Frame
- > Data Protection
- > Bit Timing & Synchronization
- > Miscellaneous

## 2. Introduction to CANalyzer Analysis

- > Configuration
- > Measurement Setup
- > Database
- > Analysis Blocks
- > Analysis Windows
- > Panels
- > Function Blocks
- > Data Logging
- > Send Options
- > Import and Export of data
- > Offline Mode
- > Further CANalyzer Functions and Windows

## 3. Introduction to the J1939 Protocol

- > J1939 Protocol Overview
- > J1939 Physical Layers
- > J1939 Data Link Layer
- > J1939 PGs, PGNs and SPNs
- > J1939 Transport Layer
- > J1939 Names and Addresses
- > J1939 Diagnostics Overview

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### 4. Analysis features of J1939

- > CANdb J1939
- > CANalyzer/CANoe J1939 Extensions
- > J1939 Scanner
- > J1939 Node Filter
- > J1939 CAPL Extensions
- > J1939 DTC Monitor
- > J1939 Diagnostic Memory Access

### 5. Introduction to CAPL in CANalyzer pro

- > Motivation
- > Introduction
- > First steps in CAPL
- > CAPL syntax
- > Evaluating messages
- > System Variables
- > Panels
- > Sending messages