

# CANalyzer Option J1939/NMEA2000 Workshop

<b>Duration:</b>	1 Day
<b>Target group:</b>	Users and developers
<b>Prerequisites:</b>	Requires basic knowledge of the J1939 protocol as well as CAN, CANalyzer and CAPL fundamentals

## 1 Introduction to CANdb (1,0 h)

Goal: Implementation and use of CANdb in the J1939 environment

Contents: Description of network data in the CANdb database which includes nodes, parameter groups, signals and attributes. Discussion of the basic differences between a standard CAN database and a J1939 database

## 2 Overview of CANalyzer Expansions (2,0 h)

Goal: Overview of supplemental functions of the J1939 NMEA2000 options

Contents: Protocol analysis in the Trace Window and logging. Use of parameter groups in the Generator block, Filter, Data and Graphic windows, Working with expanded functions such as Network Scanner, Diagnostic Plug-In, Node Filter and GPS expansions (Simulator, Monitor)

## 3 Programming with CAPL (2,0 h)

Goal: Create CAPL programs in the J1939 environment.

Contents: Using CAPL expansions to handle parameter groups. CANalyzer as a stimulator of network nodes to perform functional testing of controllers, Exercises on the PC

## 4 Analysis of Networks in the J1939 Environment (2,0 h)

Goal: Practical application of specific J1939 expansions in the analysis of networks

Contents: Practical examples are presented to show how CANalyzer can be used to find, display and analyze errors in a network, Exercises on the PC

## 5 Questions, Feedback, Suggestions

Goal: Clarification of open issues and open discussion as feedback for Vector