

# CANoe/CANalyzer J1939

## Agenda VectorAcademy

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| <b>Delivery Format:</b> | This Course is offered in Classroom.   |
| <b>Duration:</b>        | 14 hours   |
| <b>Target Group:</b>    | Users and Developers in the J1939 environment  |
| <b>Prerequisites:</b>   | Basic knowledge of CAN protocol and J1939  |
| <b>Goal:</b>            | Learning the fundamental principles of the SAE J1939 protocol, getting to know the J1939 extensions of CANoe/CANalyzer for practical use |

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**Evaluation:**

Validation of learning based on practical exercises with CANoe/CANalyzer

**Pedagogical, technical and supervisory resources:**

Course material is sent to each trainee. A link will be sent to each participant to install the CANoe/CANalyzer software J1939 and use hardware interface HW. The training will be carried out in adapted rooms.

Competence of the trainer: 15 years of experience in training related to embedded developments, network architectures.

**Method of follow-up of the trainee:**

A sign-off sheet must be validated by the trainee. A first satisfaction questionnaire is planned at the end of the training.

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### 1. J1939 Protocol Fundamentals

- > SAE J1939 Documents and Definitions of Terms
- > J1939 Network Management
- > Parameter Groups as standardized data interface
- > Types of communication and addressing
- > Signal description and SLOT definition
- > Transport protocols (BAM, RTS/CTS)
- > J1939 Diagnostics

### 2. CANoe/CANalyzer .J1939

- > J1939 Network description
- > Measurement and analysis
- > Logging and Offline Analysis
- > J1939 Plugins
- > Sending possibilities
- > Fundamentals of simulation