

# CANoe Simulation

## Agenda VectorAcademy

<b>Delivery Format:</b>	This Course is offered in Classroom or Remote Format
<b>Duration:</b>	Classroom: 1 day Remote: 7 hours
<b>Target Group:</b>	CAN users: CAN network validation, software developers and vehicle architecture
<b>Prerequisites:</b>	Notions of programming and digital electronics, CAN protocol, CANalyzer
<b>Goal:</b>	At the end of the training, the trainee will be able to simulate the electronic architecture of a vehicle on the basis of a project

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**Evaluation:**

Validation of learning based on practical exercises with CANoe.

**Pedagogical, technical and supervisory resources:**

Course material is sent to each trainee. A link will be sent to each participant to install the CANoe software and use hardware interfaces. 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. CAPL for simulation**

- > Work with timers and Report bus anomalies via the CAPL
- > System and panel variables, Simulation

**2. Introduction to CANoe**

- > Development phases of distributed systems
- > Context of use of CANoe
- > Creation of CANoe configurations with multiple CAN networks
- > Configuration and use of different CAN hardware interfaces

**3. Simulation of Remaining Bus**

- > Simulation of an ECU via the CAPL, Panels and system variables
- > Creation of various panels
- > Simulation of an ECU via CANoe Interaction Layer
- > Application on vehicle architecture

**4. Network Management**

- > Theory on CAN network management
- > Network management simulation
- > Using the Network Management layer (NM.dll)
- > Application on standby and network wake-up