

# Extended Functionalities of CANoe.LIN

## Agenda VectorAcademy

<b>Duration:</b>	1 Day
<b>Target Group:</b>	LIN Users
<b>Prerequisites:</b>	LIN Fundamentals, CANoe/CANalyzer.LIN
<b>Goal:</b>	Remaining bus simulation, stressing and analyzing with CAPL programs, LIN Slave Conformance Tester

### 1 | Introduction to the Programming Language CAPL

**1.0 h**

- > System- and LIN-specific procedures
- > Elementary event procedures
- > Data types, typical CAPL keywords
- > Exercises

### 2 | LIN Cluster Simulation with CAPL

**3.5 h**

- > Simulation of slave tasks
- > Simulation of a master task, scheduling of Unconditional, Diagnostic, Event Triggered und Sporadic Frames
- > Network management
- > Exercises

### 3 | LIN Stress Feature Set

**1.0 h**

- > Simulation of errors, manipulation of the bandwidth, simulating short circuits
- > Exercises

### 4 | LIN Analysis Feature Set

**0.8 h**

- > Analysis functions supplementing analysis windows of CANoe
- > Exercises

### 5 | Testing with LIN

**1.2 h**

- > LIN Slave Conformance Tester and Test Feature Set in CANoe