

CANoe/CANalyzer LIN

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom.
Duration:	21 hours
Target Group:	LIN users and developers
Prerequisites:	Basic knowledge of LIN protocol, CANalyzer and CAPL
Goal:	Knowledge of bit-serial communication in motor vehicles, the physical properties of a LIN network and the functionality of the LIN protocol. Measurement, analysis and stimulation with CANoe/CANalyzer in the LIN environment. Knowledge of CANoe's restbus simulation, insight into LIN test functionalities.

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 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.

1. LIN Fundamentals

- > Introduction to bit-serial communication in vehicles
- > LIN communication principle
- > LIN protocol and message types
- > LIN network description
- > LIN Diagnostics and LIN Slave Configuration
- > LIN Hardware

2. Measurement, Analysis and Sending with CANoe/CANalyzer.LIN

- > LIN Network Description and LDF Explorer
- > Installation
- > Introduction to CANoe/CANalyzer.LIN
- > Measurement and analysis
- > Sending and simulating with CANoe.LIN

3. Extended Functionalities of CANoe.LIN

- > Introduction to the Programming Language CAPL
- > LIN Cluster Simulation with CAPL
- > LIN Slave Conformance Tester
- > LIN Stress Feature Set
- > LIN Analysis Feature Set