

Extended Functionalities of CANoe.LIN

Agenda VectorAcademy

Duration: 1 Day, 7h
Target Group: LIN Users
Prerequisites: LIN Fundamentals, CANoe/CANalyzer.LIN
Goal: Remaining bus simulation, stressing and analyzing with CAPL programs, LIN Slave Conformance Tester

Pedagogical, technical and supervisory resources:

- A course material is given to each trainee.
- An Editor for LIN database LDF Editor and CANoe for simulation and fault injection in LIN network
- The training sessions will be held in suitable rooms (meeting rooms)
- Trainer's competence: 15 years of experience in training related to embedded developments, network architectures.

Method of follow-up of the trainee:

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

1 | Introduction to the Programming Language CAPL

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

2 | LIN Cluster Simulation with CAPL

- > 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

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

4 | LIN Analysis Feature Set

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

5 | Testing with LIN

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