



Agenda VectorAcademy

CANBEDDED WORKSHOP – THEORY AND EXERCISES

Duration:	2 Days
Target Group:	Certified suppliers of the vehicle manufacturer industry. A corresponding certificate has to be sent together with the final announcement
Prerequisites:	Basic knowledge of CAN and programming in C
Goal:	Knowledge of the CANbedded concepts and interoperation of the components.

1 | OVERVIEW | 1.5 H

- ▶ Overall view of CANbedded Software Components and their interaction
- ▶ Short introduction, tool chain, network data base (dbc), configuration tool, exercises (code examples)

2 | CAN DRIVER | 2.5 H

- ▶ Understanding of the CAN Driver and the cooperation with the application
- ▶ Initialization, transmission and reception, notification, overrun and error handling, sleep mode and wake-up

3 | INTERACTION LAYER | 2.5 H

- ▶ Understanding of the Interaction Layers advantage for transmission and reception of messages (signals), deepen your signal oriented sight
- ▶ Transmission types, monitoring of receive messages, signal interface, notification of application

4 | OSEK NETWORK MANAGEMENT | 2.5 H

- ▶ Basic understanding of the control of the bus via the network management
- ▶ Algorithm, bus sleep and wake-up, error handling, hardware selection

5 | TRANSPORT PROTOCOL | 1.5 H

- ▶ Understanding of function and advantage of the transport protocol
- ▶ Algorithm, parameters, addressing, message layout, error handling



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6 | **DIAGNOSTICS LAYER** | 2.0 H

- ▶ Usage of diagnostics layer and integration in the application
- ▶ Services, exceptions, CAN-specifics, timings, addressing, data exchange with the application

7 | **ADDITIONAL ASPECTS** | 1.0 H

- ▶ Better understanding in connection with the specific feature of the vehicle manufacturers
- ▶ OEM-specific infrastructure

8 | **QUESTIONS, SUGGESTIONS, REQUESTS**