

ECU Tests with CANoe

Agenda VectorAcademy

Duration:	2 Days
Target Group:	CANoe users in the test field
Prerequisites:	None
Goal:	Using CANoe as a testing tool, programming CAPL test modules, diagnostic features for ECU tests, Using measurement hardware, ECU memory access via XCP

1 | CANoe Quick Start

0,5 h

- > CANoe basics
- > Interaction Layer

2 | Introduction to CAPL Test Modules

1.5 h

- > CANoe Test Features overview
- > Test environment, test modules, test execution dialog
- > Test module configuration
- > Flow control, test groups, test cases, test steps
- > Test report generation
- > Execution options

3 | Programming CAPL Test Modules

6.5 h

- > Stimulation and wait points
- > Semi-automatic tests
- > Signal oriented tests
- > CANoe Interaction Layer manipulation for testing purposes
- > CAPL test functions for efficient test implementation
- > Constraints and conditions
- > Stimulus functions

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4 | Introduction to Diagnostics

1.0 h

- > Diagnostics and transport protocols
- > Configuration of diagnostic descriptions (CDD, ODX, ...)
- > Introduction to CANoe's Diagnostic Feature Set

5 | Using Diagnostic CAPL Functions

1.5 h

- > Diagnostic requests and diagnostic responses
- > Evaluation of diagnostic parameters
- > Using Seed & Key DLLs
- > Diagnostic tests with CAPL

6 | Tests using measurement hardware

1.5 h

- > System variables
- > Using measurement and test hardware

7 | Tests with XCP

1.5 h

- > Introduction XCP protocol
- > XCP configuration in CANoe
- > Measure ECU internal variables
- > ECU Tests with XCP