

# ECU Tests with vTESTstudio

## Agenda VectorAcademy

<b>Duration:</b>	2 Days
<b>Target Group:</b>	CANoe users in the test field, vTESTstudio users
<b>Prerequisites:</b>	CANoe Advanced or experience developing CANoe test modules
<b>Goal:</b>	Developing test projects with vTESTstudio and its integrated test design editors, test tables and test commands, project organization, exchange with CANoe, CAPL test modules, test diagrams, information exchange with requirement management systems

### 1 | Introduction to vTESTstudio

- > vTESTstudio concepts and features
- > Graphical user interface
- > Test project structure
- > System environment setup

### 2 | Creating Test Tables

- > Fundamentals
- > Test commands
- > Test execution in CANoe
- > Sequences, test cases, functions
- > Parameterizing and usage
- > Importing Test Automation Editor modules

### 3 | Efficient Tests

- > Parameter definition
- > Parameter types and their usage
- > Classification Trees
- > Variants
- > Variant depending parameters

### 4 | CAPL Test Modules

- > Configuration, test cases, sequences and functions
- > Parameter and variants
- > Using CAPL in test tables
- > CAPL inline in test tables

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### 5 | Test Diagrams

- > Concept and introduction to the editor

### 6 | Reusability in Test Projects

- > Reusable folders
- > External libraries
- > System environment abstraction with test system variables
- > Best practice

### 7 | Connection to Requirement Management Systems

- > Overview and example