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Certified Embedded Associate MCAL Development

Agenda VectorAcademy

Delivery Format:	This Course is offered as a blended learning.
Duration:	2 weeks (~41 hours) Approximately 36 hours of self-study (via E-Learning) + 4 hours of remote sessions. (1 welcome session and 4 Q&A sessions). Exam: 45 minutes Access to the virtual machine: 2 months, starting with welcome session
Target Group:	MCAL developer
Prerequisites:	Knowledge about the AUTOSAR Classic Platform, experience in embedded software development & experience with the programming languages Java and C.
Goal:	Obtain certification that verifies your knowledge in the subject areas listed here. Participants will be able to develop an AUTOSAR MCAL driver using the Vector toolchain.

1. Generator Development Kit

1.1. Introduction

- General overview of the GenDevKit training
- Introduction into Eclipse and EPARM

1.2. Generator

- Generator basics
- Accessing the BSWMD model
- Creating the required classes and using APIs
- Generation result

1.3. Validator

- Validator basics
- Validator implementation
- Validator result and ID
- Solving Actions & Auto Solving Actions

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2. MCAL

2.1. Introduction

- Basic knowledge
  - Folder structure
  - Steps of developing an AUTOSAR compliant driver
  - Different parts of a generator project
  - Component requirements
  - Overview of tool and component interactions in MCAL Development

2.2. Generic Code

- EPARM
  - Instruction
  - Create and adapt BSWMD file
  - Create and adapt Preconfig file
- Generator
- Data preformatting
- JET
- Validator
- DaVinci Configurator Classic
  - Add new component
  - Configure component
  - Generate component

2.3. Static code

- Introduction
- Instruction
  - Implementation
  - MemMap
  - Compiler

2.4. Build

- Introduction
- Add and adapt make files

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Schedule:

