

MICROSAR Classic Platform (CP) Training

Agenda VectorAcademy

Duration:	4 Days
Target Group:	Project Leader, Developer, Users
Prerequisites:	Knowledge about software development for automotive systems
Goal:	General view of AUTOSAR CP; Handling of the Vector AUTOSAR solution

1 | MICROSAR Introduction 2.0 h

- > AUTOSAR Methodology
- > EE Architecture
- > SWC Design
- > BSW Configuration
- > Vector's AUTOSAR Solution

2 | Your Delivery 1.5 h

- > SIP Structure
- > Project Structure
- > Development Process
- > Demo Project – Start Application

3 | RTE and Application 1.5 h

- > AUTOSAR RTE Concepts
- > AUTOSAR Application Concepts
- > Software Design Elements

4 | RTE and Application Practical Exercise 1.5 h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

5 | MICROSAR Operating System 1.5 h

- > OS Addons
- > Tasks
- > Alarms
- > Timers
- > Interrupts
- > Scheduling
- > IOCs
- > [...]

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6 | MICROSAR Generic IO

1.5 h

- > Port
- > DIO
- > PWM
- > ADC
- > I/O HW Abstraction
- > Client Server Concepts

7 | MICROSAR Generic IO Practical Exercise

1.5 h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

8 | MICROSAR Communication

1.5 h

- > Transmission
- > Reception
- > Data Mapping
- > Signal Groups
- > Deadline Monitoring
- > Filters

9 | MICROSAR Communication Practical Exercise

1.5h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

10 | MICROSAR Mode Management

2.0h

- > BSW Scheduler
- > Startup Sequence
- > ECU States
- > Network Management
- > [...]

11 | MICROSAR Mode Management Practical Exercise

1.5h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

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12 | MICROSAR Memory Management

1.5h

- > FEE
- > EEP
- > Memory Handling
- > Configuration
- > NvBlock SWC
- > Service Mapping

13 | MICROSAR Memory Management Practical Exercise

1.5h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

14 | MICROSAR Diagnostics

2.0h

- > CanTp
- > DCM
- > DEM and FIM

15 | MICROSAR Diagnostics Practical Exercise

1.5h

- > A hands on Workshop where you will get the feel of the DaVinci tools and you will learn how you can simulate your ECU behaviour in a PC environment (Virtual Target) and test the Software Component logic in real time.

16 | Q/A Session

0.5h

- > A chance for the trainer to answer all your project specific questions