

PREEvision SW Engineering (AUTOSAR Classic)

Agenda VectorAcademy

Delivery Format:	This course is offered in Classroom or in Blended Format
Duration:	Classroom: 3 days Blended: 16 hours
Target Group:	System architects, development engineers, quality engineers, documentation managers
Prerequisites:	AUTOSAR Classic basics
Goal:	Develop AUTOSAR classic SW Architecture

1. Concepts of PREEvision | 1.5 h

- > PREEvision as a product for the whole architecture management
- > Development process
- > Layer model

2. Introduction to PREEvision | 2.0 h

- > Starting PREEvision the first time
- > Projects
- > Windows and diagrams
- > Perspectives and views
- > Traceability and navigation

3. PREEvision in Multi User Mode | 1.5 h

- > Lock / Commit
- > Reuse
- > Check in / Check out

4. Signal based Software Design | 6.0 h

- > Software Architecture Structure
- > Library approach: Type – Prototype – Instance
- > Modelling of Software Components
- > Creation, Definition and connection of ports
- > Interfaces, Data Elements and Data Types
- > AUTOSAR export (Software Component Template)

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5. Service based Software Design | 3.0 h

- > Paradigms Signal Based vs. Service Based
- > Modelling of Services and Service Interfaces
- > Definition of Some/IP data

6. Deployment of SWCs to Network Topology | 3.0 h

- > SWC allocation
- > Signal Routing
- > AUTOSAR export (ECU Extract)
- > Demonstration of Import in DaVinci Configurator Classic
- > Simulation in CANoe

7. Outlook: AUTOSAR Adaptive in PREEvision | 1.0 h

- > Concepts of AUTOSAR Adaptive and representation in PREEvision
- > Connecting AS Classic to AS Adaptive

8. Questions, Feedback, Suggestions | 0.5 h