

AUTOSAR Fundamentals

Agenda VectorAcademy

Duration : 1 Day
Target Group : Project Leader, Developer, Users
Prerequisites : Knowledge about software development for automotive systems
Goal: General view of AUTOSAR

1 | Overview and Aims

- > Motivation and aims
- > SWC (software components) and RTE (runtime environment)

2 | Introduction to AUTOSAR

- > Basic principles and technical concepts
- > Tasks, alarms, events, etc
- > AUTOSAR OS Scalability Classes

3 | AUTOSAR RTE

- > Interfaces with application and basic software
- > Mode of operation of the RTE

4 | AUTOSAR BSW

- > Explanation of the most important BSW (basic software) concepts

5 | Methodology of AUTOSAR

- > Overview and data exchange formats (ECU Extract, ECUC, ...)
Methodology from the view of an OEM and supplier

6 | AUTOSAR in Practice

- > Development of AUTOSAR systems demonstrated with Vector's DaVinci Tool Suite

7 | Implications and Migration

- > Presentation of different migration scenarios from the point of view of the application and the BSW