AUTOSAR Fundamentals

Agenda Vector Academy

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