

# AUTOSAR Fundamentals

## Agenda VectorAcademy

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

### 1 | Overview and Aims 0.5 h

- > Motivation and aims
- > Organization, schedule

### 2 | Introduction to AUTOSAR 1.5 h

- > Basic principles and technical concepts
- > SWC (software components) and RTE (runtime environment)

### 3 | AUTOSAR RTE 1.5 h

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

### 4 | AUTOSAR BSW 0.5 h

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

### 5 | Methodology of AUTOSAR 1.0 h

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

### 6 | AUTOSAR in Practice 1.0 h

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

### 7 | Implications and Migration 0.5 h

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