

# AUTOSAR Adaptive Platform Basic Course

Agenda VectorAcademy

<b>Delivery Format:</b>	This Course is offered in Classroom, Remote or Blended Learning Format. In the case of Blended Learning the content will be learned via E-Learning in a period of two weeks and there will be 5 accompanying remote sessions.
<b>Duration:</b>	Classroom: 2 days Remote: 14 hours Blended Learning: approx. 25 hours of self-study + 9 hours of remote sessions (see schedule below)
<b>Target Group:</b>	Project Leader, AUTOSAR ECU Developer and User
<b>Prerequisites:</b>	Knowledge about software development for automotive systems
<b>Goal:</b>	General view of AUTOSAR Adaptive Platform

## 1. Overview and Objectives

- > Motivation and aims
- > Organization and schedule

## 2. Methodology

- > Overview and data exchange formats

## 3. AUTOSAR Adaptive Application

- > Basic principles and technical concepts
- > AUTOSAR design elements

## 4. Execution Managements

- > Adaptive AUTOSAR startup behavior
- > Function groups and the machine states

## 5. Exercise 1

- > Create your first Adaptive Application

## 6. Service Oriented Communication

- > Service oriented communication principles
- > Service Discovery

## 7. Communication Management

- > Architecture

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## 8. Manifest

- > Methodology workflow
- > AUTOSAR Manifest file types

## 9. Exercise 2.1

- > Add ara::com Provider to Application

## 10. Exercise 2.2

- > Add ara::com Consumer to Application

## 11. Persistency

- > Key value storage
- > Files value storage

## 12. Excerise 3

- > Add ara::per to Application

## 13. Security

- > Secure communication
- > Cryptography

## 14. Functional Safety

- > General introduction
- > Safety concepts and features

## 15. Diagnostics Managements

- > Unified Diagnostic Services

## 16. Update and Config Management

- > Software package
- > Software component

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**Schedule for Blended Learning:**

