

AUTOSAR Adaptive Platform Basic Course

Agenda VectorAcademy

Delivery Format:	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.
Duration:	Classroom: 2 days Remote: 14 hours Blended Learning: approx. 25 hours of self-study + 9 hours of remote sessions (see schedule below)
Target Group:	Project Leader, AUTOSAR ECU Developer and User
Prerequisites:	Knowledge about software development for automotive systems
Goal:	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:

