AUTOSAR COURSE OVERVIEW

- UDS Protocol
- Operating System
- Autosar Configuration parameters
- State Management and System Services
- Autosar Methodology
- Autosar overview
- Tool Demo and Exercise
- Basic of RTE
- Basic of Software Components (SWE)
- UDS Services
- CANProtocol
- Comstack
- DCM

COURSE DURATION
6 WEEKS
AUTOSAR OVERVIEW

AUTOMOTIVE BASIC INTRODUCTION
[ADAS, ACTIVE/PASSIVE SAFETY]

AUTOSAR Methodology
• Motivation, Organization
• SDLC
• AUTOSAR Concept
• AUTOSAR Layer Model
• Approach for developing AUTOSAR software
• Data exchange mechanism between development partners
  I. Autosar XML
  II. System Description
  III. SWC Description
  IV. System Extract
  V. ECU Extract
  • Autosar interface
  • Introduction to Autosar Tools
  • Autosar work products from OEM to Tier 1

State Management and System Services
• BSW initialization
• Interaction with SW-C and other BSW modules
• Mode Management
• Sleep and Wakeup Handling
Operating system
Tasks, Alarm, Counter and Events
Basic of RTE
ISR Configuration
Basic of Software Components (SWC)
Relation to RTE
• OS Scalability Class
• RTE introduction and VFB concepts
• SWC

CANProtocol
CANProtocol
COMSTACK
COMSTACK
Autosar Configuration parameters
Autosar Configuration parameters

UDS Protocol
UDS Protocol
UDS Services
UDS Services
DCM
DCM

Tool Demo and Exercise
Autosar Configuration exercise
• Configuration of EcuM, BswM and OS module