

AUTOSAR - 2 Weeks Training

Duration:	2 Weeks
Delivery Format:	Classroom/Online
Entry criteria:	Engineers with 3+ years of experience in AUTOMOTIVE Development. Should be good in C language.
Exit criteria:	Engineers will be trained only in the CAN stack. They will groomed as a AUTOSAR full stack developer

Training Curriculum:

Week 1

Day 1

Introduction, ASWC, RTE, IO and CDD

- Overview and Introduction to Architecture
- Application Design in VFB Level
- Software Component
- RTE Layer with BSWM and E2E
- Implement RTE
- OS
- Implement OS

Day 2

ASWC, RTE & OS Implementation

- Implementing the ASWC

Day 3

IO Stack and CDD

- IoHwAb Layer
- DIO Driver
- PORT Driver
- PWM Driver
- ICU/OCU Driver
- ADC Driver

- CDD
- Implementation Managing the IO Stack using IO Abstraction Layer
- Implementation and Controlling the IO drivers using CDD

Day 4 and Day 5

Communication and CAN Stack

- Communication Module
- PDUR
- CANIF
- CAN Driver
- CAN Transceiver
- IPDUM
- CAN TP
- Implementation of Communication Stack for Seat Heater Application

Week 2

Day 1 and Day 2

Mode Management and Implementation

- COM Manager
- CAN SM
- NMIF
- CAN NM
- BswM
- EcuM
- Implementation of Mode Management and integration with the Communication stack and RTE

Day 3

Memory Stack and Implementation, WDG and Crypto

- EEPROM driver
- Flash Driver
- Fee
- EA
- MemIf
- NVM
- Implementation of Memory Stack for Seat Heater Application
- WDG Driver

- WDG Manager
- WDG If
- Crypto Stack – CsM and CryIF → Implementation of Crypto stack and managing the sources of wakeup

Day 4

Diagnostics

- DEM
- DCM
- FIM
- DET
- Implementation of Diagnostic Stack

Day 5 (Evaluation)

- Build the entire AUTOSAR stack and navigate the code flow