EB tresos classic AUTOSAR training

Online training format

Pre-training

- Installation of SW environment (EB provides setup and installation instructions)

Training schedule and structure

Schedule for 3 days

Lecture part:
9 a.m.- 3:30 p.m.
incl. 1-hour lunch break

Homework:
Approximately 1.5
hours per day

Schedule for 5 days

Lecture part:
9 a.m. – 12:30 p.m.

Homework:
Approximately 1 hour
per day

Lecture part
- Theory lectures according to the agenda
- Demonstration of exercises

Homework (Exercises)
- Self-paced repetition of all exercises
- Trainers available on standby to provide support

Post-training
- Selected topics provided as training videos
- Access to recorded exercise demonstrations

Training Topics

Chapter with corresponding Exercise

- Introduction & Concepts
  - Motivation for AUTOSAR
  - Major AUTOSAR objectives
  - AUTOSAR organization and evolution
  - AUTOSAR Concepts
- Architecture
  - Layered Software Architecture and Basic software (BSW) Modules
- Methodology
  - AUTOSAR's Configuration Concept
  - System- and ECU-Configuration
- EB tresos Studio
- Operating system

- SWC Layer & RTE
  - SWC Description
  - Interfaces
  - The runtime environment (RTE)
  - RTE events & mapping
  - Advanced concepts of SWCs

- Diagnostics
  - Development Error Tracer
  - Diagnostic Event Manager
  - Function Inhibition Manager
  - Diagnostic Communication Manager

- Communication stack
  - Overview
  - Bus independent modules (Com, PduR, IpduM)
  - Bus specific sub-stacks (Can, FlexRay, IP/Ethernet)
- Mode management
  - ECU State- and BSW Mode- Manager
  - Watchdog Management
  - COM Manager
  - Network Management
- Memory stack
  - NVRAM Manager
  - Memory abstraction Interface
  - Flash / Eeprom stack
- IO HW Abstraction
  - Dio Example

Post-training and Exercise videos

- Exercises are explained in a series of videos (1 video for each exercise step):
  https://files.elektrobit.com/index.php/s/bQjHM9QRXN9BBsR

- The following link provides access to additional training videos on topics :
  https://files.elektrobit.com/s/7ARsbiPF74XTMc9
  - EB tresos Safety Modules
  - EB tresos Security Stack

Meet & Greet

- Present yourself and provide some insights to the following:

  ➢ Where is your (Home-) Office?

  ➢ What's your current / future role in respect to the training topics?

  ➢ What are your expectations for this training?

  ➢ Do you have any prior experience with AUTOSAR and/or EB tresos Studio

Get in touch!

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