Training description
EB tresos Studio extension training

What you'll learn

This training is the second of our two training courses for EB tresos Studio, the tooling for AUTOSAR Classic Platform (CP)-based ECU configuration and generation.

The training is designed for application developers and integrators who are familiar with the AUTOSAR Classic Platform standard and the usage of EB tresos Studio. Additionally, this is for those who want to learn how to develop their own project-specific extensions and get familiar with the developer features of EB tresos Studio.

If you have no prior experience with EB tresos Studio, refer to the first of our two training courses for EB tresos Studio – the EB tresos Studio workflow training – before attending this training.

Why should you take this course?

- Improve your understanding of Eclipse and the usage within EB tresos
- Learn to set up your own development environment for EB tresos Studio
- Extend EB tresos Studio by project specific modules and tools

Course content

- Development basics
  - Introduction to Eclipse
  - Basic setup for development
  - Introduction to public Java APIs
  - Eclipse plug-in structure
- ARXML and XDM
- Module development
  - How to create a new module plug-in
  - How to write a template-based code generator
  - How to write a custom XPath function
  - Developer features
- Use case Complex Device Driver (CDD) with Com Stack interaction
- Guided configuration API
  - How to enhance the sidebar wizard

How is this course delivered?

Delivery format: ☒ Classroom   ☒ Virtual classroom   ☐ Blended learning

Target group: ☒ Developers ☐ Architects   ☐ Integrators   ☐ Testers   ☐ Managers

Duration: Classroom: 1 day
Virtual classroom: 1 day

Language: Trainer: English
Training material: English

Limitations: The maximum **number of participants** for a class is limited to 12**.**

Prerequisites

- General knowledge about software development for automotive systems
- General knowledge about the AUTOSAR Classic Platform (CP) methodology and technical concepts
- Experience in using EB tresos Studio, for example, by attending one of the following training courses: the EB tresos Studio workflow training **or** the EB tresos Classic AUTOSAR training
- General programming skills in C and Java
- Knowledge of XML and XPath strongly recommended

Resources

- Training presentation slides (PDF)
- Access to a virtual desktop for practical exercises for the duration of the training

Your learning path

Training name	Overlapping content and order (in days)		Goals/target audience	Target group
AUTOSAR basic training	1 d		Basic concepts of both AUTOSAR Classic Platform and Adaptive Platform	(Project) Managers
EB tresos Classic AUTOSAR training	3 d		High-level coverage of Classic AUTOSAR, includes basic concepts and EB tresos Studio workflow	Developers/ Integrators/ Architects
EB tresos Studio workflow training	1 d		EB tresos Studio training for those already familiar with Classic AUTOSAR	Developers/ Integrators
EB tresos Studio extension training		1 d	Possible extension for developing your own extensions to EB tresos Studio	Developers
EB tresos automotive Ethernet training		2 d	Possible extension for details of the Ethernet communication stack	Developers/ Integrators/ Architects