Measurement and Calibration with CANape

Duration: 2 Days

Target group: Developers of ECUs, application engineers

Prerequisites: none

1 Introduction to the CCP and XCP protocol (2,0 h)

Goal: Provide general foundation in the CCP and XCP protocol

Contents: the synchronous data transfer model, Overview to functions like Seed&Key, data transfer with timestamp, power-up data transfer, synchronous data stimulation

2 Introduction to CANape (1,0 h)

Goal: Introduce to CANape functionality

Contents: System overview, concept of the device configuration

3 Application Concept (0,5 h)

Goal: Introduce to CANape application concept

Contents: Controller memory allocation, mirror memory, flash programming, application procedure

4 Creating a New Project (1,0 h)

Goal: Procedure for creating a new project

Contents: Adding a new controller (CANister) to the device list, configuring the CAN hardware interface, exercise

5 Measurement (2,0 h)

Goal: Fundamentals of measurement data acquisition in CANape

Contents: Data acquisition modes, configuring the display windows, virtual measurement signals, exercises

6 Calibration (2,0 h)

Goal: Calibration with CANape

Contents: Online / Offline calibration, direct-/ indirect- calibration, mirror memory, exercises

7 Controller Database (0,5 h)

Goal: Overview of the ASAP2-compatible Database Editor

Contents: Working with the integrated ASAP2-compatible Database Editor

8 Offline Evaluation (2,0 h)

Goal: Introducing the multirecorder support, Use CANape as an offline evaluation tool

Contents: XY display, Measurement cursor, Difference cursor, Global cursor, expanded search functionality, analysis of MDF files, Insert virtual file channel, exercises

9 Data Management (2,0 h)

Goal: Presentation of the CDM - Studio

Contents: Loading, saving and comparing parameter set files, storage and flash programming, user defined parameter list, exercises

10 Functions and Scripts (0,5 h)

Goal: Overall overview regarding the programming environment

Contents: Allocating and compiling of functions, instantiating functions, examples of scripts, exercises

11 Questions, Feedback, Suggestions (0,5 h)

Goal: Clarification of open issues and open discussion as feedback for Vector