

## Tracing and Analysis Features for TriCore/ MCDS/ AURIX™ with Lauterbach TRACE32 - Face-to-Face Training

### Objectives

This training addresses those who want to extend their knowledge of debugging with the Lauterbach TRACE32 toolchain by various tracing techniques. Both generic functions (software-based) and specific applications (hardware-supported trace unit based on the AURIX™ microcontroller platform) are highlighted and demonstrated, also in the context of the Lauterbach scripting language Practice. The training moreover covers flexible analysis features for an efficient evaluation of the recorded data. Attendees work on fully functional target platforms enabling them to directly apply and reproduce what they just learned.

### Participants

Hardware and software developers, test engineers, verification engineers, application engineers, integrators, fault analysts

### Requirements

Basic knowledge of the AURIX™ microcontroller architecture. Basic knowledge of TRACE32 (ideally, obtained in our training "Multicore Debug for TriCore/AURIX™ with Lauterbach TRACE32")

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### Content

#### Software-based Tracing

- Profiling: Variables (Software Oscilloscope), Program (Sample-based Performance Measurement)
- Logging: Snooper (Sample-based Tracing), Var.LOG, ART (Advanced Register Trace)

#### Hardware-based Tracing

- Trace Configuration
- MCDS Basic Configuration
- Basic Triggering
- Complex Triggering (Complex Trigger Language)
- Peripheral Trace, GTM Trace (Demo)
- OS Trace

#### Analytics and Special Use Cases

- Trace-based Debugging (Context Tracking System)
- Runtime
- Data
- Code Coverage

### FACE-TO-FACE TRAINING

Date	Price *	Duration
21.02.2025 – 21.02.2025	700,00 €	1 day

\* Price per attendee, in Euro plus VAT

Training code: E-T32-TRA

**Live Online - English**

<b>Date</b>	<b>Duration</b>
29.11. – 29.11.2024	1 day

**Face-To-Face - German**

<b>Date</b>	<b>Duration</b>
21.02. – 21.02.2025	1 day

**Live Online - German**

<b>Date</b>	<b>Duration</b>
29.11. – 29.11.2024	1 day

**Coaching**

Our coaching services offer a major advantage: our specialists introduce their expertise and experience directly in your solution process, thus contributing to the success of your projects.

We will be happy to provide you with further information or submit a quotation tailored to your requirements.