

Trainings for Automotive Ethernet

Modular Trainings and customer-specific workshops

Automotive Ethernet Training - Basic

- ➔ Introduction
- ➔ Motivation for the use of Ethernet technologies
- ➔ Ethernet basics and wording
 - Communication Model
 - Physical Layer (100BASE-T1 / OABR)
 - Network
 - Delimitation Ethernet - IT vs. Automotive

- ➔ Ethernet influences on automotive systems & processes
 - Development
 - Architecture
 - Test & Verification
 - Diagnostics & Software Update

Automotive Ethernet Training – Advanced

- ➔ Switches & VLANs
 - ➔ Testability & Logging interfaces (mirroring, Taps)
 - ➔ Layer 3+ protocols (IP, UDP, TCP)
 - ➔ Communication mechanism, esp. Remote-Procedure-Call
 - ➔ SOME/IP + Service Discovery
 - ➔ AUTOSAR, ethernet integration
 - ➔ Startup, Shutdown, Networkmanagement (UDP-NM)
 - ➔ Audio-Video-Bridging (AVB)
 - ➔ Security aspects
 - ➔ Diagnosis of Automotive Ethernet
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Examples for Custom-Specific Workshops:

Transfer and design of system architecture

Transfer and design of function specification

Test concepts for single ECU and system integration testing

GAP Analysis and adaption of existing tool chains

RUETZ SYSTEM SOLUTIONS

With comprehensive expertise in data communication for automotive electronic systems Ruetz System Solutions offers **Compliance Tests, Engineering Services for system specification and integration, Test Laboratories, Technology Assessment and Automotive Ethernet Trainings.**

More information is available at www.ruetz-system-solutions.com.

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