

## Trainings for Automotive Ethernet

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Modular Trainings and customer-specific workshops

### Automotive Ethernet Training - Basic

Motivation for the use of Ethernet technologies

Ethernet basics and wording

- ⇒ Communication Model
- ⇒ Physical layer (100BASE-TX, OABR / 100BASE-T1)
- ⇒ Protocols and their use (Ethernet, TCP/IP, UDP-NM, DoIP)
- ⇒ Service oriented communication

How will Ethernet influence my work

- ⇒ Architecture
- ⇒ Development
- ⇒ Test and 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
  - ⇒ 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](http://www.ruetz-system-solutions.com).

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