



Overview

As an official IO-Link Competence & Test Center, TEConcept offers training courses and workshops worldwide to help you start, expand, and deepen your company's expertise in IO-Link. Our IO-Link experts have more than 15 years of experience in IO-Link development services.

IO-Link Basics

Ideal for beginners who want to gain a comprehensive overview of IO-Link systems, communication mechanisms, and system elements:

- General overview and system introduction
- IO-Link system elements and communication mechanisms
- Master/fieldbus mapping and integration
- IO-Link profiles and system extensions
- IO-Link Safety extension – understanding and implementing secure communication
- IO-Link Smart Sensor profile – intelligent sensor technology in practice
- Firmware and BLOB profile – data management and firmware updates

IO-Link architecture and development

This workshop offers in-depth insights into the IO-Link system architecture and its practical implementation.

- Detailed IO-Link system architecture with practical insights
- Communication models and parameters – understandable and application-oriented
- Integration into automation systems with a focus on efficient implementation

- Advanced development of device applications and master gateway implementations

IO-Link conformity tests and tools

This workshop focuses on topics such as IODD design, use of our tools (e.g. IODD-Studio, Device Tester, COD, Diagnosis Tool) and other technical details

- IO-Link conformity tests: physical layer, protocol and EMC testing
- Special tools for development and testing – efficient and reliable
- IODD design and maintenance with IODD Studio
- Tips and tricks for efficient testing, debugging, and automated processes

Deliverables

- The training courses are available in two formats: on-site worldwide or online
- The duration and agenda of the training courses are tailored to your individual needs. However, we recommend a maximum of 4 hours per day
- The workshops are available in English, German and Hungarian