

# HONING EXPERTISE IN TRAINING

## Expert partner – always up to date

In our core areas of expertise, diagnostics, measuring, testing and data communication, we are specialists for the entire life cycle of electronic ECUs and vehicle systems – from Engineering through Manufacturing to After-Sales Service. Our know-how in vehicle electronics is based on more than 30 years of experience.

Thanks to constant dialog with leading vehicle manufacturers, system and ECU suppliers, as well as the fact that we are members of the

relevant standardization committees in the automotive electronics sector, such as ASAM and ISO, you can count on Softing Automotive as a strong partner at the cutting edge of development and engineering.

## Practice-oriented training sessions instead of dry learning

For our customers, we have converted our expertise and long-term experience into a compact, modular range of training programs which is divided into practice-oriented user workshops and in-depth theoretical training seminars.

<b>BASICS</b>	<b>Basics of Vehicle Diagnostics</b>	<b>ODX Introduction Seminar</b>	<b>OTX Introduction Seminar</b>	<b>OTX Expert Seminar</b>
<b>TOOL TRAINING</b> Softing DTS.monaco	<b>Softing DTS.monaco User Seminar</b>	<b>Softing DTS.monaco Administrator Seminar</b>		
<b>SPECIFIC TOOL TRAINING SESSIONS</b>	We would be happy to flexibly tailor our training sessions as needed to suit your individual requirements. We would also be happy to extend these to include subjects and content essential to your purposes.			

## BASICS

### Basics of Vehicle Diagnostics

Comprehensive introduction to the most important topics of data communication such as bus systems, diagnostic protocols, architecture of test systems and applications. The seminar is the ideal basis for a full introduction to the world of vehicle diagnostics.

#### Topics

- Basics of data communication
- Bus systems (CAN, FlexRay, MOST, LIN, Ethernet)
- Diagnostic protocols KWP, OBD, UDS
- Diagnostic data descriptions (ODX, OTX, DoIP)
- Diagnostic standards (MVCI, MCD 3D,...)
- Sample applications and practical exercises

<b>Target group</b>	First-time users of vehicle diagnostics who want to familiarize themselves with the subject
<b>Prerequisites</b>	None
<b>Your benefits</b>	Fundamental understanding of OTX as well as OTX diagnostic sequences
<b>Duration</b>	2 days

### ODX Introduction Seminar

Presentation of fundamental insights into the concept of data-driven diagnostics using the standardized exchange format ODX and the corresponding ODX data model.

#### Topics

- Motivation behind ODX
- ODX in the diagnostic environment
- Concept of XML and UML
- Structure of ODX categories
- Diagnostic services
- Authoring guidelines
- ODX check and comparison
- Practical exercises

<b>Target group</b>	Employees from the diagnostics area who want to find out more about ODX authoring
<b>Prerequisites</b>	Basics of diagnostics
<b>Your benefits</b>	Fundamental understanding of ODX and the ODX data concept
<b>Duration</b>	1 day

## OTX Introduction Seminar

This seminar provides participants with an overview of the OTX standard. Even without programming knowledge, participants will learn how to draft first diagnostic scripts and run them using Softing's OTX Studio.

### Topics

- Introduction to the OTX standard ISO 13209
- Introduction to the Softing tool OTX Studio
- OTX linguistic elements and sample scripts
- Special libraries
- Application example for OTX sequences
- Practical exercises

<b>Target group</b>	Employees from the diagnostics area who want to create their own OTX scripts
<b>Prerequisites</b>	Basics of diagnostics
<b>Your benefits</b>	Fundamental understanding of OTX as well as OTX diagnostic sequences
<b>Duration</b>	1 day

## OTX Expert Seminar

This seminar is based on prior knowledge on creating OTX scripts and presents further functions of the OTX standard using interesting examples. Furthermore, the use of sophisticated features of OTX Studio is explained and demonstrated in practice. Extensions to the standard are also presented.

### Topics

- Advanced OTX applications
- Extended OTX functions
- Signatures
- Validities
- Working with the GUI Editor
- Possible solutions for special use cases
- Practical exercises

<b>Target group</b>	Employees from the diagnostics area with prior knowledge from the OTX Introduction Seminar
<b>Prerequisites</b>	Diagnostics, OTX basics
<b>Your benefits</b>	Understanding of complex OTX sequences as well as OTX extensions
<b>Duration</b>	1 day

## TOOL TRAINING SESSIONS | Softing DTS.monaco

### Softing DTS.monaco User Seminar

In this introductory seminar, participants become acquainted with a universal tool with which all kinds of diagnostic and test tasks can be carried out with little background knowledge.

### Topics

- Overview of Softing DTS.monaco as a diagnostic tester
- First steps with this tool
- System configuration
- Reading errors, variant coding, flashing
- Automation of diagnostic sequences (sequences, running OTX scripts)
- Practical exercises

<b>Target group</b>	Employees from the diagnostics area without any prior knowledge of working with Softing DTS.monaco
<b>Prerequisites</b>	Basics of diagnostics
<b>Your benefits</b>	Fundamental understanding of OTX as well as OTX diagnostic sequences
<b>Duration</b>	1 day

### Softing DTS.monaco Administrator Seminar

This seminar explains advanced techniques for configuring and adapting DTS Monaco to the requirements of the particular use case. For example it focuses on creating and configuring user-specific workspace layouts and templates.

### Topics

- Creating Softing DTS.monaco layout
- Configuring the available HMI controls
- Special application cases for HMI controls
- Creating user interfaces for special application cases
- Adapting OTX scripts
- Practical exercises

<b>Target group</b>	Employees from the diagnostics area with prior knowledge from the Softing DTS.monaco User Seminar
<b>Prerequisites</b>	Softing DTS.monaco User Seminar
<b>Your benefits</b>	Using Softing DTS.monaco for creating configurations and user interfaces
<b>Duration</b>	1 day



If you have any questions regarding bookings, available dates or customer-specific trainings please don't hesitate to contact us at [sales@dgtech.com](mailto:sales@dgtech.com) or by phone on **248.888.2000**



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