

Trainings

For inhouse trainings and workshops we would be pleased to prepare an individual offer tailored to your wishes and requirements.

On our website you will find prices, conditions and dates of open training sessions.

Individual solutions

In addition, Altran also offers individual solutions, e.g.

- Management
- Coaching
- Process optimization and -rollout
- Engineering or
- complete product development

Please contact us for your individual consultation appointment.

Functional safety for automotive development

- Trainings
- Management
- Coaching
- Engineering

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Training

This training covers the basics of functional safety at system and component level, based on ISO 26262.

It is designed for employees of automotive companies who want to get into development of safety-critical systems (hardware/software).

- System engineers, function developers, hardware and software developers
- System administrators, function testers
- Testers, quality assurance officers, security
- Project managers, team leaders or group leaders

The following offers may also be of interest to you:

- AUTOSAR
- ISTQB® Certified Tester
- Requirements Management



Agenda

Day 1

Presentation

- **Basics**
 - Safety
 - Safety-critical systems
 - Functional safety
- **Standards**
 - Safety standards
 - IEC 61508, SIL
 - ISO 26262, ASIL
 - Further standards and norms
- **Management of functional safety**
 - According to ISO 26262
- **Concept phase**
 - Item definition
 - Initiation of the safety lifecycle
 - Hazard analysis and risk assessment
 - Functional safety concept

Practical exercises

- Hazard analysis and risk assessment

Day 2

Presentation

- **Analyses**
 - Basics
 - Faults, Failure
 - Reliability, Availability
 - Methods
 - FMEA, FMEDA
 - Fault Tree Analysis (FTA)
 - Event Tree Analysis (ETA)
 - Reliability Block Diagrams
- **Design**
 - Basic principles
 - ASIL decomposition
 - Fault prevention
 - Fault tolerance
 - Fault detection and control

Practical exercises

- Fault Tree Analysis (FTA)
- Event Tree Analysis (ETA)
- Reliability Block Diagrams

