

# Automotive System Design according to ISO 26262

## Optional: "TUV Functional Safety Engineer (Automotive)" Certificate

The TUV Rheinland Functional Safety Program was started to offer engineers the opportunity to deepen their knowledge and experience, and to thus obtain a know-how that is accepted worldwide as well as practical expertise in the area of functional safety. We are offering this training on the automotive standard ISO 26262 in cooperation with TUV Rheinland.

The training aims to teach participants the necessary knowledge to be able to implement the requirements of the international ISO 26262 standard in a goal-oriented and effective way. - The course lasts three days; on day four there is an option to take part in an exam. Passing this exam is one of the conditions to be met to obtain the "TV Functional Safety Engineer (Automotive)" certificate issued by TUV Rheinland.

### Course Contents

- The functional safety of electronic systems
- Introducing safety integrity (SIL, ASIL)
- The relationship between ISO 26262 and the basic standard IEC 61508
- Homologation rules & regulations
- Product liability
- The international standard ISO 26262
- General methods and requirements
- Considering the lifecycles of safety-related systems
- Requirements for the management of functional safety
- Requirements for the assessment of functional safety
- The importance and meaning of the automotive safety integrity levels
- Defining requirements according to the chosen ASIL

### Agenda Day 1

- Introduction, Overview of the TUV Functional Safety Program
- Introduction to safety engineering
- Applying the international standard ISO 26262
- Functional safety management
- Hazard and risk analysis

### Agenda Day 2

- Product development on system level
- Product development on hardware level
- Hardware development processes
- Hardware architecture metrics

### Agenda Day 3

- Product development on software level
- Software design and development
- Software implementation
- Software test and analysis
- Hardware – software – integration
- Release for production and operation
- Final discussion

### Agenda Day 4

- Review
- Questions and Answers
- Exam

### Target Group and Prerequisites

- Target Group: Experienced developers, project leaders, quality managers and testers who are developing embedded systems in automotive based on ISO 26262.
- Prerequisites for certification: An academic qualification and a minimum of three years professional experience in the area of "functional safety" are required besides passing the exam.

### Course Fees and Dates

- € 2,250 plus VAT – this fee including the examination, certification fee, training materials, lunch, and (soft) drinks
- € 1,980 plus VAT – without the examination / including a certificate of attendance
- For dates see [www.kuglermaag.de/trainings](http://www.kuglermaag.de/trainings)

This training course is being offered in cooperation with TÜV Rheinland as part of the "TÜV Rheinland Functional Safety Program".



### Contact

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