

Functional Safety (Automotive)

The standard IEC 61508 is the reference model for the development of safety related components and systems accepted world wide. For the development of embedded car control units an industry specific standard exists as ISO DIS 26262. Manufacturers as well as suppliers need to prove to their customers and accreditation authorities that despite increasing complexity and software determination their electronic systems will deliver the required functionality safely and reliably.

This two-day course teaches a sound understanding of the standards IEC 61508 and ISO/DIS 26262 as well as their application. The course consists of lectures, practical exercises and discussions, and offers the opportunity to ask questions and exchange experiences.

Course Objectives

- To understand the logic and structure of the standards IEC 61508 and ISO DIS 26262.
- To understand the requirements for managing functional safety in the company.
- To know about the duties and responsibilities of the safety manager.
- To be able to understand and implement the individual steps of the safety life cycle.
- To be able to design processes in such a way that they meet the requirements of the safety standards as well as the requirements of the reference models CMMI® or Automotive SPICE®.
- To be able to establish cooperation between OEM and supplier with regards to functional safety.
- To know how to prepare for a functional safety assessment.

Agenda - Day 1: Sound Introduction

- Motivation. Why is this issue coming up now?
- Survey of standards for functional safety and structure using IEC 61508 / ISO DIS 26262
- Safety management; safety culture, safety roles; the safety plan
- The safety life cycle; the relation between the safety standards, Automotive SPICE® and CMMI®
- Hazard and risk analysis, safety rating SIL / ASIL

Agenda - Day 2: Consolidation

- Specification, design and implementation requirements
- Integration and test requirements
- Deriving measures, methods, techniques and tools
- Safety validation
- Safety assessment

Participants and Prerequisites

Number of participants: up to 12 persons max.

Target group: Staff of car manufacturers and suppliers including project managers, developers and quality responsables from development and purchasing; Persons intending to perform/implement safety management themselves and wishing to acquire a deeper understanding of the standards to be able to e.g. adjust the processes in their own company.

Participants receive

- Certificate of attendance
- Course materials and the results of their exercises and discussions

Trainers

Our trainers are all recognized experts with many years experience in performing assessments and implementing improvements in the context of the development of software determined systems in the automotive industry. They advise OEMs and suppliers on the implementation of safety standards and report from the field for the field.

Dates and Times

- Duration: 2 days
- For the actual course dates and times please refer to our web page www.kuglermaag.com

Course Fee

Course fee: 990 € per person, plus VAT

If two or more people from the same company register together, we grant a 20% discount from the second participant onwards.

Contact

Mrs. Ute Schieß
training@kuglermaag.com
 Phone: +49 (0)7154 1796 124

Kugler Maag Cie is partner of the SEI, founding member of intacs™ and training partner of the VDA-QMC.

