

IEC 61508 TRAINING COURSE

In this course you will learn the basics of functional safety with application examples, group exercises and benefit from our industry knowledge and experience.

The course content includes system level considerations, hardware and software, as well as supporting information regarding safety analysis, Dependent Failure Analysis (DFA) and production process considerations.

DURATION: 2 Days

PRICE: € 1.400 / £ 1,300 per person

LANGUAGE: English or German

COURSE CONTENT:

- Module 1 - IEC 61508 Overview (half day)
- Module 2 - IEC 61508 Hardware (half day)
- Module 3 - IEC 61508 Software (half day)
- Module 4 - IEC 61508 Supporting Infrastructure (half day)

TARGET AUDIENCE:

Functional safety staff, engineers, project leaders, project managers, quality engineers, hardware/software developers

PREREQUISITES:

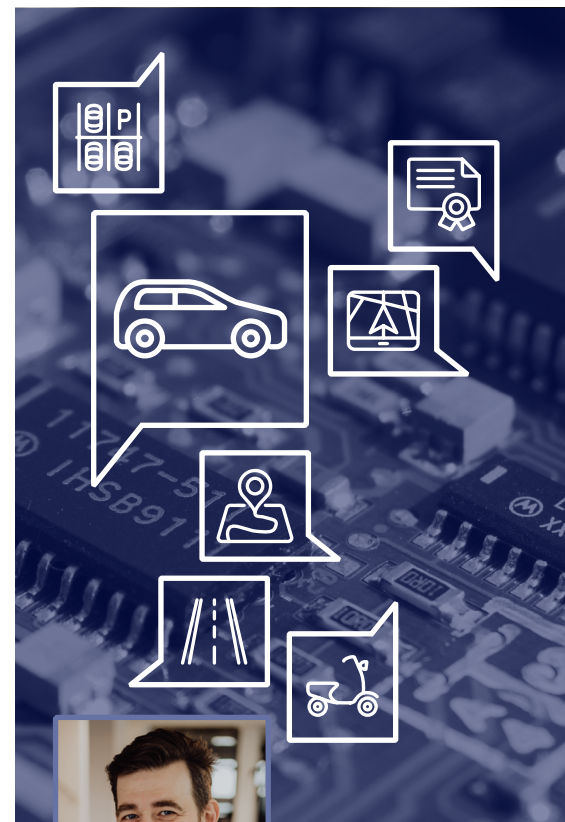
This course is suitable for delegates with no prior knowledge of IEC 61508 or can be customised for a more experienced audience.

FURTHER INFORMATION:

The training takes place either online or live and lasts 8 hours each day (including a 30 minute lunch break and 2 shorter breaks).

On request we grant a discount for group bookings.

IEC 61508 FUNCTIONAL SAFETY E/E/EP SYSTEMS



TRAINER:
Gerrit Steinöcker

We are happy to work with your organisation to develop **customised and cost effective training** that meets your requirements in terms of date, timing and content.

PLEASE CONTACT US FOR YOUR BOOKING OR ENQUIRY:

info@lorit-consultancy.com

+43 676 338 8884 or

+44 7708 360023

MODULE CONTENT

MODULE 1: IEC 61508 OVERVIEW (HALF DAY)

- Legal considerations
- Safety culture - acceptable risks
- Roles & independent reviews
- Terminology
- Hazard analysis & SIL classification
- Causes - failure modes
- Concept phase
- System level
- Integration and verification
- Team exercises

MODUL 2: IEC 61508 HARDWARE (HALF DAY)

- Overview hardware
- Terminology
- Development according to IEC 61508
- HW qualification
- Evaluation of hardware elements
- PFH (Average frequency of a dangerous failure per hour) & PFD (Probability of dangerous failure on demand)
- Production, service and decommissioning
- Hardware integration and verification

MODUL 3: IEC 61508 SOFTWARE (HALF DAY)

- Overview Software
- Terminology
- Software language: tools and evaluation
- Software safety analyses
- Software architectural design
- Development according to IEC 61508
- Software integration and verification
- Software metrics

MODUL 4: IEC 61508 SUPPORTING INFRASTRUCTURE (HALF DAY)

- Configuration, document and change management
- Proven in use arguments
- Distributed development
- IEC 61508 Part 6
- Dependent failure analysis
- Cybersecurity
- IEC 62061
- ISO 13849
- Agile development process

