

# IEC61508 Software (DE0103)

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## Development of safety related Software, Analysis & Testing acc. to IEC61508

### Who should attend

- Development Engineers (System, Software)
- Safety Managers
- Software Project Leaders
- Software Quality Responsibles

**Duration:** 1.5 Days

**Language:** German or English, training material will be in English.

**Location:** [exida.com](http://exida.com) GmbH office

Prof.-Messerschmitt-  
Straße 1  
D-85579 Neubiberg /  
Germany

or **ONLINE**

### Course topics:

- From concept to system decomposition:
  - What software people have to know about system and hardware decisions
- Software Development (IEC 61508 - Part 3)
  - Content of the SW Safety Process
- SW Safety Requirements specification and allocation
- SW Architecture: How to do it, how to use it
- SW related methods, measures and techniques
  - How to deal with the tables in the IEC 61508
  - exemplification: Software planning using an UML tool (Enterprise Architect)
- Partitioning, protection of interference freeness
  - runtime measures for detecting residual errors in software
  - exemplification: typical solutions
- SW Safety Verification
  - Requirements on Verification
  - SW Analysis Techniques
    - SW Criticality Analysis
    - SW Dependent Failure Analysis
  - SW Testing Techniques
    - Requirements based (Equivalence Classes, Boundary Values, etc.)
    - Structure based (Statement Coverage, MCDC, Call Coverage, etc.)
  - Examples and Exercises with example solutions
- Tool qualification

### Brochure



Scheduled courses -  
[Register here:](#)