

ISO26262 Software (DE0203)

Development of safety related Software, Analysis & Testing acc. to ISO26262

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.

Brochure



Course topics:

- From concept to system decomposition: What software people must know.
- Software Development Process (ISO 26262 - Part 6)
 - Content of the Software Safety Process
 - Initiation and tailoring
- Software Safety Requirements Specification:
 - Sources of Software Safety Requirements and interfaces to System Level
 - Interpretation of properties and attributes required by ISO26262
 - Practical methods how to derive and detail requirements for the software
 - Methods for the verification of Software Safety Requirements
- Hardware Software Interface Specification
 - Interfaces to the Software Safety Requirements and Software Architecture
- Software Architecture:
 - How to develop a Software Architecture acc. to ISO26262
 - Semi-formal architecture development - interpretation of ISO26262
 - Measures to be considered
 - ASIL Decomposition at the software level
 - How to implement Freedom from Interference
 - Safety requirements allocation to software architectural components
 - Methods for the verification of the Software Architecture.
- Software Unit Design
 - Content of a semi-formal Software Unit Design Specification
 - Interpretation of design requirements recommended by ISO26262
 - How to deal with OO programming languages (C++)
 - Methods for the verification of the software unit design
- Software Safety Verification
 - Software Analysis Techniques
 - Software Criticality Analysis
 - Software Dependent Failure Analysis
 - Software Testing Techniques (Unit and Integration Testing)
 - Requirements based (Equivalence Classes, Boundary Values, etc.)
 - Structure based (Statement Coverage, MCDC, Call Coverage, etc.)
 - Tool classification and qualification
 - Software qualification, How to deal with existing components.

Scheduled Courses