



Functional Safety Red Belt Training (FSRB) - ISO26262:2018

Program

Day 1 - Overview, management and concept

- Introduction to ISO 26262 and its scope
- Safety culture
- Overall safety management and
- Supplier/customer management
- Functional safety management during development
- Tool qualification
- Concept phase of safety development
- Hazard Analysis & Risk Analysis (HARA)
- Functional safety concept
- ASIL Decomposition

Day 2 - Safety development at system and HW level, production and operation

- Specification of the technical safety requirements
- Technical safety concept methodology
- Principles for system architectural design
- System and hardware testing and verification
- Safety validation
- Functional safety assessment
- Production of a safety product
- Specification of HW safety requirements
- Principles for HW architectural design

Day 3 - Safety design at HW level, HW safety analysis and SEooC

- Introduction to safety analysis
- Different types of FMEA
- Diagnostic Coverage & HW Test concept
- Failure modes of HW elements
- Calculation of Hardware metrics SPFM, LFM, PMHF
- FMEDA (Failure Mode, Effect and Diagnostic Analysis)
- Fault Tree Analysis (FTA)
- Development of a HW component as a SEooC

Day 4 - Safety development at SW level, SW safety and dependant failure analysis

- Product development at the software level
- Specification of software requirements
- Software architectural design and pattern
- SW safety mechanisms
- Dependent failure analysis
- Software unit verification, integration
- Calibration and configuration
- Proven-In-Use argument
- Qualification of software components

What you will get from this training:

- Know-how from one of the leading experts for ISO 26262 and SOTIF
- Recognized certificate attesting your competencies in the field of the ISO26262 standard
- Training material with exercices and examples covering the entire scope of the standard

Training Information

- 4 days course
- 1/2 day exam (optional)
- Language: English (others on request)

Target Audience

- Developers, testers or system engineers
- Safety engineers & safety managers
- Quality representatives & project managers

Your contact

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- Head of Functional Safety and Lead Assessor
- ISO 26262 Expert
- Swiss delegate of ISO 21448 standardization working group (SOTIF)
- Member of Schweizerische Normen-Vereinigung (SNV) road vehicle group

