



Functional Safety Red Belt Training (FSRB) - IEC61508

Program

Day 1 - Introduction and overall life-cycle

- Relation to other standards
- Functional Safety Management (FSM)
- Safety Life-cycle
- Risk Reduction Concept
- Modes of Operation

Day 2 - SIL Determination and HW design

- Hazard and Risk Assessment
- Allocation of Safety Requirements
- Hardware Architectures
- Introduction to Metrics (SFF, DC, HFT, PFH...)
- Mission Profiles

Day 3 - Hardware Design Assessment

- Introduction to FMEDA
- Metrics Calculation (SFF, DC, HFT, PFH...)
- Evaluation of the Achieved SIL
- Common Cause Failure Assessment
- Relation between Hardware and Software

Day 4 - Software Design and Safety Validation

- Software Development Phases
- Measures to Avoid Systematic Failures
- Software Validation and Integration
- Tool Qualification
- Safety Validation of the System

What you get from this training:

- Training material with exercises and examples covering the entire scope of the standard
- Recognized certificate attesting your competencies in the field of the IEC 61508 standard

Training information

- 4 days course
- 1/2 day exam (optional)
- Language: English
- Lunch and refreshments included

Target Audience

- Developers, testers or system engineers
- Safety Engineers, Safety Managers
- Quality representatives
- Project managers



Your trainer

Eric Silva

- Head of Machinery Department
- Member of the IEC Technical Committee TC65 covering the IEC 61508 standard
- Lecturer at the university of applied sciences
- Certified in the automotive domain for ISO26262 standard
- ASPICE Certified Provisional Assessor

