# ISO 26262 - Road vehicles

## Hardware Safety Engineer – Advanced (IT-07)

Professional Qualification as
*Functional Safety Automotive Hardware Engineer*

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| Duration | 3 days |
| Prerequisites | Certification as FS Automotive Engineer – Basic Level |
| Language | Italian or English |
| Training material | English |

### Programme

**[Day 1]**
ISO 26262-2: Management of functional safety
- Overall safety management

ISO 26262-3: Concept phase
- Initiation Hazard analysis and risk assessment on the Item
- Initiation Functional safety concept]

ISO 26262-4: Product development at the system level
- Specification of the technical safety requirements and system design
- Item integration and testing
- Safety validation and release for production

ISO 26262-6: Product development at the software level
- Initiation of product development at the software level

**[Day 2]**
ISO 26262-5: Product development at the hardware level
- Initiation of product development at the hardware level
- Specification of hardware safety requirements
- Hardware design
- Evaluation of the hardware architectural metrics
- Evaluation of safety goal violations due to random hardware failures
- Hardware integration and testing
- Examples and templates

**[Day 3]**
ISO 26262-7: Production and operation
- Initiation of production, operation, maintenance, repair and decommissioning

ISO 26262-8: Supporting processes
- Confidence in the use of software tools
- Qualification of components

ISO 26262-9: ASIL-oriented and safety-oriented analyses
- Requirements decomposition with respect to ASIL tailoring
- Safety analysis

Summary of the main covered topics
Written and (if needed, for borderlines) oral exam (2 hours)

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