

## Software Safety Engineer – Advanced (IT-06)

Professional Qualification as  
*Functional Safety Automotive Software Engineer*

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

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### 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 26262-5: Product development at the hardware level

- Initiation of product development at the hardware level

#### [Day 2]

ISO 26262-6: Product development at the software level

- Initiation of product development at the software level
- Specification of software safety requirements
- Software architectural design
- Software unit design and implementation
- Software unit testing
- Software integration and testing
- Verification of software safety requirements
- 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)