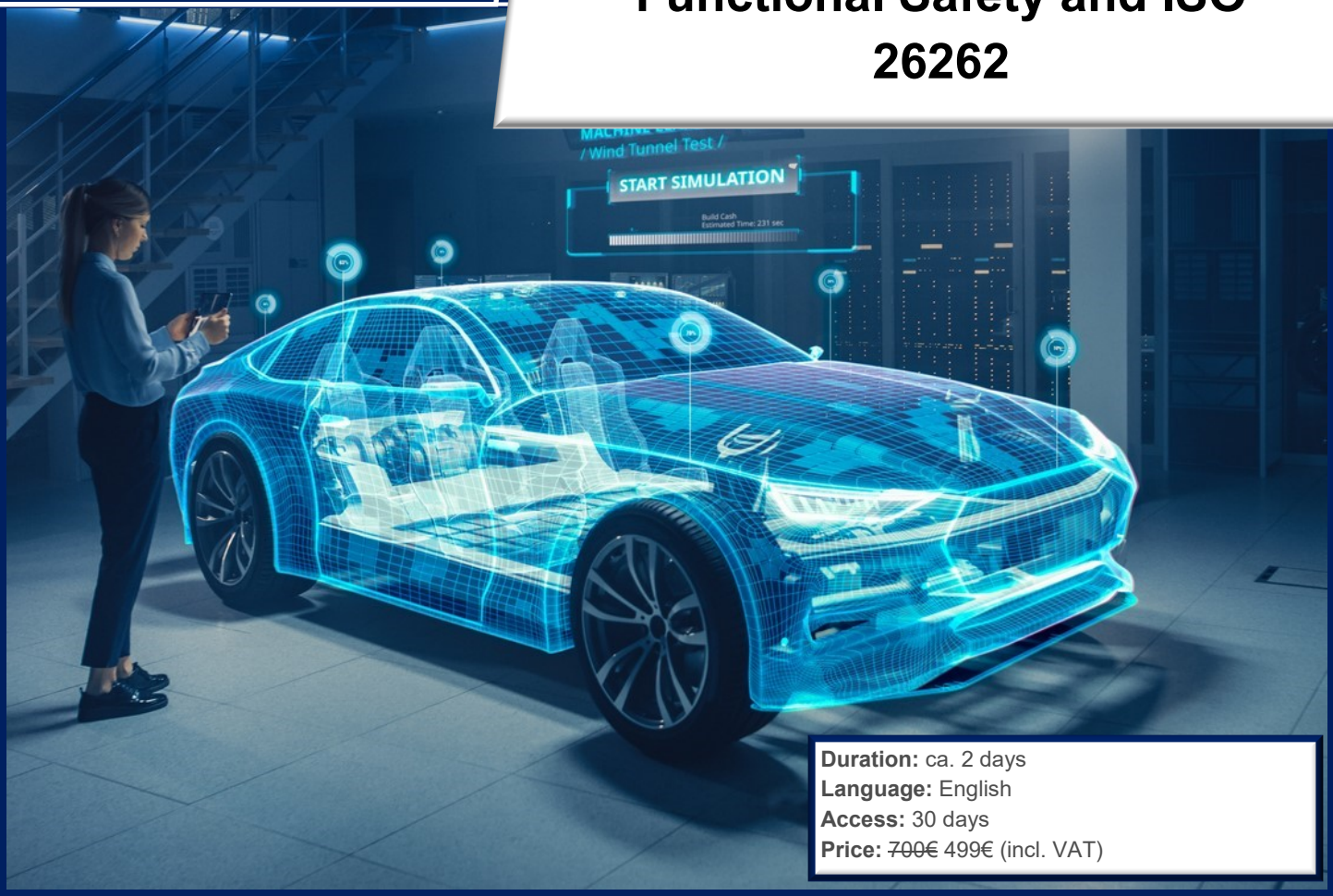
WALTERCONSULTING
FUNCTIONAL SAFETY

E-Learning Course

Introduction - Functional Safety and ISO 26262



Duration: ca. 2 days
Language: English
Access: 30 days
Price: ~~700€~~ 499€ (incl. VAT)

Who Should Attend?

- **Manager, Project Leader, Safety Manager, HW/SW-Developer, Test-Engineers, Quality Responsibles and all other Safety Responsibles with interfaces to Functional Safety and ISO 26262**

Agenda

- **Kapitel 0: Welcome**
- **Kapitel 1: Motivation**
- **Kapitel 2: Functional Safety**
- **Kapitel 3: ISO 26262**

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Chapter 0: Welcome

- About walterconsulting
- Introduction Trainer
- Agenda

Chapter 1: Motivation

- Real-life examples
- Why functional safety?

Chapter 2: Functional Safety

- History
- Functional safety standards overview
- Terms and definitions (Functional safety, risk, ASIL)
- Legal aspects

Chapter 3: ISO 26262

2. Management of Functional Safety

- Safety Lifecycle
- Safety Culture
- Safety Manager
- Safety Plan
- Safety Case
- Confirmation Measures

3. Concept Phase

- Item-/Systemdefinition
- Hazard Analysis & Risk Assessment
- Functional Safety Concept
- *Example: ASIL Dekomposition*

4. Product development at the system level

- Technical Safety Concept
- FTA and FMEA
- Testing and Integration at system level
- *Example: FTA*

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Chapter 3: ISO 26262

5. Product development at the hardware level

- Fault classification (e.g. Safe Fault, Latent Fault)
- Calculation of the hardware metrics
- Requirements and architecture
- Testing and integration at the hardware level
- *Example: Parity bit*

6. Product development at the software level

- Requirements and architecture
- Testing and integration at the software level
- *Examples: Code Coverage, Branch Coverage, Modified Condition Coverage*

7. Production, operation, service and decommissioning

- Planing activities
- Documents

8. Supporting processes

- Clause 5 to 16 (e.g. Configuration Management, Tool Qualification, “Proven in use“ Argument

9. Safety Analyses

- Freedom from interference
- Depentent Failure Analysis

Chapter 3: ISO 26262 Exercises

- Hazard Analysis & Risk Assessment
- Functional Safety Concept
- Technical Safety Concept
- Hardware Metrics
- Software Safety Requirements and Software Architectural Design