

Functional Safety - System Safety Architecture Day 1

09:00 – 09:30

Introduction

1. FSS Hamburg – who we are
2. Overview of ISO 26262 and its importance
3. Safety standards for system area
4. Functional safety systems

09:30 – 09:45

Coffee & Tea Break

09:45 – 11:00

How to develop a safety architecture at the system level

5. Overview of ISO 26262 Part 4
6. Key steps in developing a system safety architecture
7. Documentation throughout the development process
8. Best practices and common pitfalls

11:00 – 11:15

Checkpoint & Break

11:15 – 12:00

Technical safety requirements

9. Technical safety requirements with FuSa impact
10. Verification of technical safety requirements
11. Template: FuSa technical requirements

12:00 – 13:00

Lunch Break

13:00 – 14:30

System safety architecture

12. Importance of system architectural design in FuSa
13. Design strategies for safety-critical systems
14. How do you show “freedom from interference”?
15. Error detection and handling
16. Verification of the system architecture

14:30 – 14:45

Coffee & Tea Break

14:45 – 16:00

System safety analyses impact

17. Introduction to safety analyses in ISO 26262
18. Failure modes and effects analysis (FMEA)
19. Fault tree analysis (FTA)
20. Dependent failure analysis (DFA)
21. Hazard and operability analysis (HAZOP)
22. How does the safety analysis impact my system architecture?

16:00 – 16:30

Concluding Round & Feedback

Functional Safety Training - System Safety Architecture Day 2

09:00 – 09:30	Recap of Training Day 1
09:30 – 09:45	Coffee & Tea Break
09:45 – 11:00	Different view of the system architecture <ol style="list-style-type: none">1. Functional system architecture2. Logical system architecture3. Technical system architecture4. Safety system architecture aspects
11:00 – 11:15	Checkpoint & Break
11:15 – 12:00	ASPICE relevance for system architectural design
12:00 – 13:00	Lunch Break
13:00 – 14:30	Implementation example of safety architecture <ol style="list-style-type: none">5. Examples of safety architecture6. Linking possibilities7. Definition of modelling guidelines8. Definition of system interfaces
14:30 – 14:45	Coffee & Tea Break
14:45 – 16:00	Safety tasks for a system architect to do <ul style="list-style-type: none">- HW – SW interface specification<ol style="list-style-type: none">9. How does the HIS relate to the safety architecture10. Differences between HIS and system architecture (SYS.3)- Decomposition according to ISO 26262<ol style="list-style-type: none">11. Decomposition basics12. ASIL misconceptions13. How does decomposition change the architecture?
16:00 – 16:30	Concluding Round & Feedback

In our trainings we focus on providing you with the necessary information and tools you need to implement functional safety quickly and effectively in your occupational routine. We combine theoretical knowledge with engaging exercises and always leave enough room for further questions.

For any inquiries contact us via buero@functional-safety-solutions-hamburg.com.

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