



AUTOMOTIVE FUNCTIONAL SAFETY

3.5-DAY TRAINING WITH AFSP QUALIFICATION EXAM

1

Introduction & Overview of ISO 26262

Day 1 training will address introductory topics Functional Safety Management and Risk Assessment. Methodologies of Hazard Analysis and Risk Assessment (HARA) are discussed in detail, including worked examples.

- Introduction to Functional Safety
- ISO 26262 & its Legal Consequences
- Functional Safety Management
- Overview of Additional Supporting Processes
- Hazard Analysis and Risk Assessment (HARA)
- HARA Training Exercise

2

Safety Concepts

Day 2 training addresses the functional & technical safety concept as well as system design. In addition, issues relating to safety analysis and concept verification are presented with examples.

- Deriving the Functional Safety Concept (FSC)
- FSC Training Exercise
- Deriving the Technical Safety Concept (TSC)
- System Level Safety Analysis: FMEA & FTA
- Development of System Design

3

Hardware & Software Development

ISO 26262 defines a specific approach to hardware and software development. The detailed requirements for hardware and software are presented in depth, along with implementation strategies for engineers.

- Allocation of Technical Safety Requirements
- Theory of Probabilistic Safety Analysis for Hardware
- Hardware Metrics: SPFM, LFM and PMHF
- Introduction to the Software Safety Lifecycle
- Techniques According to ISO 26262, Part 6

4

Supporting Processes & Optional AFSP Personal Certification Exam

On the morning of Day 4 training, kVA will present critical supporting processes including tool qualification, component qualification, and freedom-from-interference guidelines. In the afternoon participants have the option to achieve AFSP "Automotive Functional Safety Professional" qualification. This two hour written exam consists of all multiple-choice questions.

- Confidence in the Use of Software Tools
- Software Tool Qualification Exercise
- Wrap-Up and Discussion
- Optional AFSP Personal Certification Exam

CONTACT US

This training is held at multiple sites in the U.S. throughout the year. To register for one of our ISO 26262 training events visit kvausa.com/training/. On-site training is available upon request.