

ISO 26262 Functional Safety Overview for Functional Safety Engineers and Managers



Course Duration: 2 Days - 8 Hours/day

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Seminar Content

This two-day course will give the participant the base knowledge necessary for management teams involved in the development and assurance of the functional safety of new products utilizing electrical and electronic elements through the use of the ISO 26262 Functional Safety Management System standard. This standard is an adaptation of the Functional Safety standard IEC 61508 for the specifics of automotive electric/electronic systems. It is to be applied to Safety Related Systems that include electric/electronic systems that are installed in production passenger vehicles.

Learning Objectives

- ✦ Identify the purpose and scope of ISO 26262
Describe the framework of the ISO 26262 standard
- ✦ Enumerate the 12 parts of the standard
Identify the influences and drivers of the standard
- ✦ Be able to interpret ISO 26262 ASIL tables
Understand key aspects of functional safety management
- ✦ Identify the requirements for the organization after the release of the design to serial production
- ✦ Describe the impact of ISO 26262 on production and operational activities
- ✦ Enumerate the requirements of ISO 26262 which support the design and development activities for functional safety

- ✦ Describe the requirements for distributed development
- ✦ Organize the development of a SEooC consistent with ISO 26262
- ✦ Describe the item definition and initiate the safety lifecycle
- ✦ Understand the development of the hazard analysis and risk assessment and the related safety goals and functional safety concept

Seminar Outline

- ✦ Introduction and Overview to ISO 26262
- ✦ *Purpose and Scope*
- ✦ *ASIL Driven Activities*
- ✦ Management of Functional Safety (Part 2)
- ✦ Overall Safety Management
- ✦ Project Dependent Safety Management
- ✦ Safety Case
- ✦ Confirmation Measures
- ✦ Safety Management regarding Production, Operation, Service and Decommissioning
- ✦ ISO 26262 Part 7 – Production and Operation
- ✦ Overview of Production and Operation Phase
- ✦ Safety Element out of Context (Part 10 – Informative)
- ✦ ISO 26262 Part 3 – Concept Phase
- ✦ Item Definition

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- Hazard Analysis and Assessment
- Functional Safety Concept
- System Level Development (Part 4)
- Technical Safety Concept
- The Need for Functional Safety and Getting Started

Who Should Attend

This course is designed for managers and new product development support personnel.

Pre-Requisite

Attendees should have a working knowledge of their organization's New Product Development Process.

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