Partner with us for ISO 26262 based Functional Safety Services

Functional Safety Analysis, Design & Development Services

**Safety Plan Creation and Functional Safety Management at organizational level:**
This is done to reduce the incidence of human errors at various stages of the product life-cycle.

**Concept Phase Management:**
- Item definition
- Impact analysis
- Hazard and Risk analysis (HARA)
- ASIL determination and decomposition
- Functional safety concepts and requirements

**System Safety Architecture Definition (Technical Safety and System Safety)**
- Technical Safety Concept
- Technical Safety Requirements
- System level Safety analysis
  (Fault Tree Analysis - FTA, Failure Modes and Effects Analysis - FMEA)
Safety Analysis and Design (Software and Hardware)

- Safety requirements Analysis for hardware failure metrics:
  - Single Point Failure Metrics (SPFM)
  - Latent Point Failure Metrics (LPFM)
  - Fault Rate Calculation based on IEC 62380
  - Probabilistic Metrics for random Hardware Failures (PMHF)
  - Common Cause and Cascading Analysis

- Software Analysis:
  - Software Error detection and handling methods
  - Software tool qualification
  - Diagnostic coverage analysis
  - Software Failure Modes and Effects Analysis

- Hardware & software design analysis for ASIL compliance
- Component Level Design FMEA (IQRM and Excel)

Coding and Design Implementation:
Software coding and design implementation based on software architecture design, following ISO 26262 guidelines. In addition to this, various ISO 26262 WP Templates, Guidelines and Checklist are also provided for existing work-product.

Safety Verification and Validation Support:

- Unit testing
- Integration Testing
- Functional Testing
- System integration and testing
- Final System Validation

ISO 26262 compliance for existing work-products

To ensure highest levels of functional safety through ISO26262 compliance to your existing automotive application, we can help you with:

- Gap analysis at technical and functional levels
- Consulting Support in performing safety assessment and identifying the functional safety work-flow of your automotive application
We offer online and onsite training programs on ISO 26262 based Functional Safety, which can be availed as per the following schedules:

**1-day training**
- ISO 26262 Overview

**2-day training**
- Covers the specific topics under the ISO 26262 Functional Safety Standard

**5-days training**
- Detailed ISO 26262 Functional Safety Training

**Get in touch with our Team:**

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