

Safety Integrity Level (IEC 61508)

FUNCTIONAL SAFETY ASSESSMENT



FSA

Functional Safety Assessment

- Mandatory process prior to SIL Certification
- Evaluation of the adequacy of the Functional Safety in compliance with the IEC 61508

HW and SW design review

- Product design review
- FMEDA
- HW Validation
- SW/FW Validation

FS Management System review

- FS policy / procedure
- FS Management plan
- FS audit

Quality Constraints Audit

- Verification of Quality Requirements (IEC 61508)

Validation Tests and issue of FSA report and SIL Certificate

HW AND SW DESIGN REVIEW

Hardware & Software

REVIEW OF PRODUCT SPECIFICATION

RELIABILITY ANALYSIS

IEC 61508-3-V MODEL

MANAGEMENT SYSTEM

Functional Safety Management System

POLICY AND PROCEDURES

FUNCTIONAL SAFETY PLAN

AUDITING (PERIODICALLY)

QUALITY CONSTRAINTS AUDIT

Quality Management System

ISO 9001 CERTIFICATION

MANUFACTURING AND TESTING DOCUMENTATION

CRITICAL SUPPLIER EVALUATION

SIL CERTIFICATION

SIL 1, SIL 2, SIL 3, SIL 4

Internationally Valuable

Product Design & Restyling

Different Product Characteristics from Competitors'