

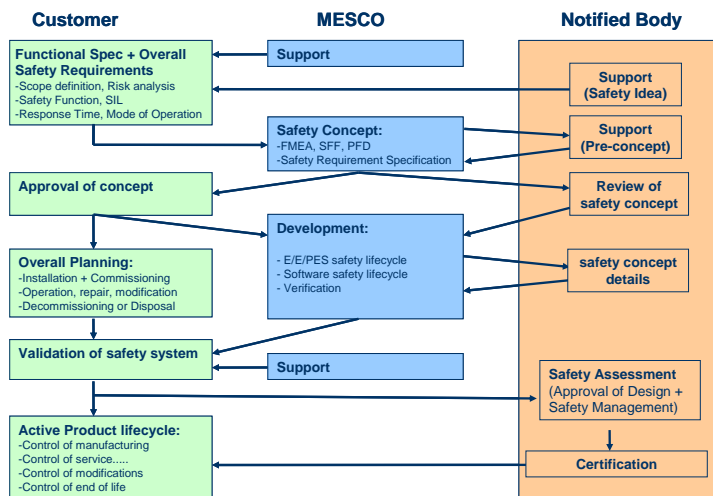


# Functional safety – development and consulting with IEC 61508

## Overview

Functional safety products offer a great competitive advantage in a growing market within the automation and process industry. However, implications by IEC 61508 for the organization and its processes can be strong. MESCO, employing TUV certified „Functional Safety Engineers”, masters the entire road from a safety concept up to the SIL certificate for safety-related products covering motion control, process and safe field bus communication. MESCO is an accredited PROFIsafe Competence Center and also offers consulting services for functional safety development projects.

## Collaboration Customer, MESCO und TUV



A well-proven cooperation with TÜV Nord guarantees ideal response times and a minimized development risk due to inter-coordinated collaboration.

MESCO collaborates also with other organizations (TÜV Rheinland, TÜV Süd, BGIA...).



## Standards

The following functional safety standards can be fulfilled by MESCO-developed products:

- IEC 61508** Basic standard for functional safety of E/E/PE systems
- IEC 61511** Standard for safety in process industry
- EN 62061/EN ISO 13849-1** Standard for machinery safety
- IEC 61800-5-2** Stop categories for machinery, safety standard for drives

## Services

Consulting:

- Workshops introducing development conforming to IEC 61508
- Consulting along your own functional safety development
- Consulting with functional safety management
- Support for creation of certification relevant documents and templates

Development:

- Feasibility studies
- Safety concepts with concept approval
- Hardware and software development of components up to SIL3
- Integration of safe field bus communication technologies (e.g. PROFIsafe V2)
- Development of PC software for parameterization and diagnostics of functional safety systems

Certification:

- Assistance with concept approval and certification process