

Certification of Functional Safety Management

In addition to certification of products, TÜV Rheinland Group offers audit and certification of the Functional Safety Management (FSM) systems for a company (or a location or business unit within a company), based on the FSM requirements of IEC 61508 or IEC61511.

IEC 61508 as well as IEC61511 defines general requirements for the Management of Functional Safety, for Functional Safety Assessment, and for documentation.

For development of safety-related devices and systems and for system application, the organizational and failure-avoidance measures have to be verified or validated. Rather than perform this assessment repeatedly (for each new product assessment), there is an opportunity to integrate these measures as an integral part of a Functional Safety Management System in a company.

The business sector **Automation, Software and Information Technology (ASI)** of TÜV Rheinland Industrie Service GmbH (division of the TÜV Rheinland Group) has developed a certification system which can either certify an appropriate existing Safety Management System, or can assist a company in the process of setting up and carrying out of such a Functional Safety Management System, with the aim of certification.

The following key advantages result from integrating and certifying a Functional Safety Management System:

- The Safety Management System assessment will be “company-based”. This means that the competences are not assigned to an individual person but are applicable to the respective departments, for example in the form of a general Functional Safety Management Handbook.
- Depending on the business of the company, the certification can be carried out specifically for the relevant phases of the overall Safety Lifecycle (OSLC). This means, for example with focus on IEC61508, phase 9 of OSLC for system manufacturers, or phases 1 to 8 and 12 to 15 of OSLC for operating companies.
- The flow of information to sectional points of adjoining phases, e.g., system manufacturing and system integration, is also considered during certification. Therefore, it will be ensured that the product documentation contains all the relevant information which is necessary for a standard-compliant application by your customers.
- Development of new devices and systems, as well as the integration of existing safety-related devices and systems, can be effectively and completely planned due to the validated and certified procedures. Hence, the related costs will be reduced in the case of a product qualification or plant inspection.
- A Functional Safety Management (FSM) System creates an advantage against competitors, for example because a consistent, standard-compliant, product development or application planning process has been certified.

Certification of Functional Safety Management

