ISO 26262 - AUTOMOTIVE FUNCTIONAL SAFETY ASSESSMENT & SUPPORT

Demonstrate the functional safety compliance of your electrical/electronic automotive systems.

BUSINESS CHALLENGE

ISO 26262, the adaptation of the IEC 61508 for Electrical and/or Electronic [E/E] automotive systems, is aimed at providing a solution for functional safety issues. Based on a common risk approach, this international standard helps the entire supply chain when dealing with functional safety issues.

The standard takes into account all entities involved in the safety functions of a road vehicle. As soon as a function (at the vehicle level) or an item1 (at the equipment level) is defined, an assessment must be performed to prove that functional safety has been achieved.

SOLUTION

Based on our technical and methodological expertise, Bureau Veritas can assess the functional safety of your designed system - at the vehicle or item level. Bureau Veritas can also support and train your team in developing your process according to ISO 26262.

WHY CHOOSE BUREAU VERITAS?

- **Technical expertise** - Bureau Veritas expertise covers a wide range of technical domains. Benefit from working with the best specialists chosen for their knowledge and experience in safety instrumented systems.

- **Functional safety standard experience** - With its expertise in functional safety standards and varied experiences, Bureau Veritas is able to perform assessments according to main functional safety standards.

- **Regulation expertise** - Our consultants have a significant knowledge of the regulation context. As a result, they are particularly watchful of regulation evolutions that can impact one of your systems. Bureau Veritas is actively involved in national and European technical commissions like the BNA (Bureau of Automotive Standardization). This involvement allows us to anticipate regulation evolutions.

- **Reactivity and proximity** - With a network of 1,330 sites in 140 countries and more than 59,000 employees, Bureau Veritas can bring you responsiveness and proximity for any need.

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1. The vehicle level involves functions which are shared between several systems. An item is a system or an array of systems to implement a function at the vehicle level, to which ISO 26262 is applied.
OUR APPROACH

Depending on the context and needs, three kinds of services can be performed: support, training and assessment.

The functional safety assessment process is based on 4 steps:

- Definition of the safety activities and documents to be assessed. This agreement between Bureau Veritas and the item supplier is mainly based on the safety plan.
- Assessment of the work products required by the standard: realization of comment sheets and identification of gaps with ISO 26262.
- Realization of documentation and on-site audits.
- Issuing of the functional safety report which gives the result of the assessment.

FAQ

How is the functional safety assessment managed between Bureau Veritas and you?

Bureau Veritas has defined a specific organization dedicated to the functional safety assessment. The Bureau Veritas assessment team is made up of highly-skilled assessors and a project leader who is the direct interlocutor.

How are commentaries and remarks regarding work products managed?

In order to properly manage all work products, a specific process is in place to manage commentaries. The assessment is based on a Bureau Veritas tool which helps create commentary reports by work product.

The process of creating commentary reports is as follows:

- Issuance of commentaries with a score indicating level of importance on each input document or after the audit.
- Reception of results, then, if necessary, resumption of the concerned document.
- Conclusion on commentaries after an analysis is completed by Bureau Veritas concerning results or after a second evaluation.

RELATED SERVICES

- Risk Identification & assessment and ASIL² allocation
- Consulting, verification and validation of E/E/PE system design
- Reliability calculation verification (single point fault metric, latent point fault metric, diagnostic coverage and residual faults)
- Tests in laboratory for electronic sub-systems
- Factory acceptance tests (FAT)

CONTACT

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FOR MORE INFORMATION

please visit: www.bureauveritas.com/transportation

2: ASIL: Automotive Safety Integrity Level. From A to D, ASIL D corresponds to the highest level of stringency and ASIL A to the lowest.