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- 8 - IEC:2003(E) Clauses 9 and
10 Design phase for safety instrumented
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Clause 12 Allocation of the safety

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requirements to the safety instrumented functions and development of safety requirements Specification Development of the overall safety

**INTERNATIONAL IEC STANDARD
61511-3**

Clause 17 of IEC 61511 sets the guidelines to follow. We must ensure that the safety integrity required by the SIS is maintained after the modifications made. Functional Safety Assessment (FSA) : An FSA must be done periodically during this phase to ensure that maintenance and operation is carried out in accordance with the assumptions made during the design.

Compliance with IEC 61511 in the process industry

IEC 61511-3 Ed. 2.0 b:2016 ... IEC 61511-3:2016 applies when functional safety is achieved using one or more SIF for the protection of either personnel, the general public, or the environment; may be applied in non-safety

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applications such as asset protection;
illustrates typical hazard and risk
assessment methods that may be
carried out to ...

**IEC 61511-3 Ed. 2.0 b:2016 -
Functional safety - Safety ...**

IEC 61511-3 Ed. 1.0 b:2003 Functional
safety - Safety instrumented systems for
the process industry sector - Part 3:
Guidance for the determination of the
required safety integrity levels

**IEC 61511-3 Ed. 1.0 b:2003 -
Functional safety - Safety ...**

- 10 - IEC 61511-3:2016 RLV □ IEC 2016
This standard IEC 61511-3 deals
with guidance in the area of determining
the required SIL in hazards and risk
analysis assessment (H & RA). The
information herein is intended to provide
a broad overview of the wide range of
global methods used to implement H &
RA hazards and risk assessment.

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IEC 61511 EDITION 2 STANDARDS
PDATE WHITE PAPER 3 — IEC 61511-3
part 1 changes Management of
functional safety The second edition
requires a formal procedure to be in
place to manage the competence of all
those involved within the safety
instrumented system (SIS) lifecycle.
Such competency assessment process
shall be documented.

WHITE PAPER Functional safety update IEC 61511 edition 2 ...

- explains the differences between Ed. 1 and Ed. 2 of IEC 61511-1 and the reasons behind the changes,
 - presents high level summaries of how to fulfil the requirements of the clauses, and
 - explains differences in terminology between IEC 61508-4:2010 and IEC 61511-1 Ed. 2.
- 2 Normative references

Edition 1.0 2020-02 TECHNICAL REPORT - webstore.iec.ch

IEC 61511 There have been major changes in the structure of clause 12,

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Application program safety life cycle is
moved to clause 6. Application program
safety requirements specification is
moved to clause 10.3.3-10.3.6, and
some description text is moved to part
two as guidance. Stricter rules on how to
document independents between non

Changes in IEC 61511 edition 2

The IEC 61511 series addresses the application of SISs for the process industries. The IEC 61511 series also addresses a process Hazard and Risk Assessment (H&RA) to be carried out to enable the specification for SISs to be derived. Other safety systems' contributions are only considered with respect to the performance requirements for the SIS.

Edition 2.1 2017-08 CONSOLIDATED VERSION

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INTERNATIONAL IEC STANDARD 61511-1

EN 61511-2 ed. 2 EN 61511-2 ed. 2
Functional safety - Safety instrumented
systems for the process industry sector -
Part 2: Guidelines for the application of
IEC 61511-1 - Abstract IEC 61511-2:2016
RLV contains the International Standard
and its Redline version. The Redline
version is available in English only.

EN 61511-2 ed. 2 - European Standards

The IEC 61511-3 deals with guidance in
the area of determining the required SIL
in hazards and risk assessment. The
information herein is intended to provide
a broad overview of the wide range of
global methods used to implement
hazards and risk assessment.

Edition 2.0 2016-07 INTERNATIONAL STANDARD NORME ...

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IEC 61511 is an application specific
adaptation of IEC 61508 for the Process
Industry sector. This standard is used in
the petrochemical and hazardous
chemical industries, among others. IEC
61508 and IEC 61511
Safety Integrity Levels

Safety Integrity Level (SIL) - 61508/61511

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safety instrumented systems for the
process industry sector - part 0:
functional safety for the process industry
and iec 61511: une en 62282-3-1 : 2011
: fuel cell technologies - part 3-1:
stationary fuel cell power systems -
safety: bs pd iso/tr 12489 : 2013

IEC 61511-3 : 2.0 | FUNCTIONAL SAFETY - SAFETY ...

IEC 61508-3 : 1998 Functional safety of
electrical/electronic/programmable
electronic safety-related systems — Part
3: Software requirements IEC
61511-2:2003 Functional safety —
Safety instrumented systems for the

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Guidelines in the application of IEC
61511-1 LS/IEC 61508-2:2000 Functional
safety

IS/IEC 61511-1 (2003): Functional safety - Safety ...

IEC 61511 was published in 2003. ISA and IEC, like many standards development organizations, try and put their standards through a 5 year review and development cycle. In the early 2000's the ISA 84 committee felt that the more recent 61511 standard was a considerable improvement compared to its original work, and the committee agreed to adopt 61511 as the 2nd edition of ISA 84. The only change was the addition of the "grandfather clause" (1.y) which comes from a US regulation.

Upcoming Changes in IEC 61511 2nd Edition

IEC 61511-2 Edition 2.0 2016-07
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Full text of "IS/IEC 61511-1: Functional safety - Safety instrumented systems for the process industry sector, Part 1: Frameworks, definitions, system, hardware and software requirements"
See other formats

**Full text of "IS/IEC 61511-1:
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IEC standard 61511 is a technical standard which sets out practices in the engineering of systems that ensure the safety of an industrial process through the use of instrumentation. Such systems are referred to as Safety Instrumented Systems.

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IEC 61511 Lifecycle overview -
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