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Functional Safety Safety Instrumented Systems  
For The Process Industry Sector Part 3 Guidance  
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**IEC 61511 3 Ed 10**

- 8 - IEC:2003(E) Clauses 9 and 10 Design phase for safety instrumented systems Clause 11 Design phase for safety instrumented system software Clause 12 Allocation of the safety 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

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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 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 ...**

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- 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.

### **REDLINE VERSION - [webstore.iec.ch](http://webstore.iec.ch)**

IEC 61511 EDITION 2 STANDARDS PDATE WHITE PAPER 3 — IEC  
61511 - 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 ...**

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- 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](http://webstore.iec.ch)**

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

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Hazard and Risk Assessment (H&RA) to be carried out to enable  
the specification for SISs to be derived. Other safety systems'  
contribution s are only consider ed with respect to the  
performance requirements for the SIS.

### **Edition 2.1 2017-08 CONSOLIDATED VERSION**

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22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch  
Web: www.iec.ch

### **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.

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**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**

...

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 Level (SIL) - 61508/61511**

iec tr 61511-0 : 1.0 : functional safety - safety instrumented



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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 process industry sector — Part 2: 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

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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 REDLINE VERSION Functional safety - Safety instrumented systems for the process industry sector - Part 2: Guidelines for the application of IEC 61511-1:2016 INTERNATIONAL ELECTROTECHNICAL COMMISSION ICS 13.110; 25.040.01 ISBN 978-2-8322-3549-2

## **REDLINE VERSION - [webstore.ansi.org](http://webstore.ansi.org)**

Full text of "IS/IEC 61511-1: Functional safety - Safety instrumented systems for the process industry sector, Part 1:

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## **Full text of "IS/IEC 61511-1: Functional safety - Safety ...**

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.

## **IEC 61511 - Wikipedia**

IEC 61511 Lifecycle overview - 30/07/2020 GM International - Technology for Safety. Loading... Unsubscribe from GM International - Technology for Safety? ... Published on Aug 3, 2020.

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