

AS IEC 61511.2:2018  
IEC 61511-2:2016

AS IEC 61511.2:2018



# **Functional safety—Safety instrumented systems for the process industry**

## **Part 2: Guidelines for the application of AS IEC 61511.1**



## AS IEC 61511.2:2018

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The following are represented on Committee IT-006:

- Australian Computer Society
- Australian Industry Group
- Australian Petroleum Production and Exploration Association
- Consult Australia
- Institute of Instrumentation, Control & Automation Aust
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## Preface

This Standard was prepared by the Standards Australia Committee IT-006, Industrial Process Measurement, Control and Automation, to supersede AS IEC 61511.2—2004.

The objective of this Standard is to provide guidance on the specification, design, installation, operation and maintenance of safety instrumented functions (SIFs) and related safety instrumented systems (SISs) as defined in AS IEC 61511.1.

NOTE 1 Annex A (informative) has been organized so that each clause and subclause number therein addresses the corresponding clause and subclause number in AS IEC 61511.1 except for being preceded by “A”.

NOTE 2 Annex A now contains material previously in the body of the first edition. These changes are required for conformance with IEC rules which prohibit a standard being wholly informative.

NOTE 3 To achieve maximum use of this Standard—

(a) review the section guidance as well as the specific clause guidance (e.g. when looking for guidance on Clause 5.2.6.1.3, consider guidance in Clause 5.2.6); and

(b) when specific clause guidance is not provided (e.g. no further guidance provided), consider reviewing the section guidance as well, as it can be applicable).

NOTE 4 Examples given in the annexes of this Standard are intended only as case specific examples of implementing AS IEC 61511 requirements in a specific instance, and the user should satisfy themselves that the chosen methods and techniques are appropriate to their situation.

This Standard is identical with, and has been reproduced from, IEC 61511-2:2016, *Functional safety — Safety instrumented systems for the process industry sector — Part 2: Guidelines for the application of IEC 61511-1:2016*.

As this document has been reproduced from an International Standard, the following applies:

(i) In the source text “this part of IEC 61511” should read “this Australian Standard”.

(ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The term “informative” is used in Standards to define the application of the annexes to which it applies. An “informative” annex is only for information and guidance.

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