

Australian Standard[®]

**Functional safety of
electrical/electronic/programmable
electronic safety-related systems**

**Part 6: Guidelines on the application of
IEC 61508-2 and IEC 61508-3**



This Australian Standard® was prepared by Committee IT-006, Industrial Process Measurement, Control and Automation. It was approved on behalf of the Council of Standards Australia on 10 March 2011.
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- Australia Safety Critical Systems Association
 - Australian Computer Society
 - Australian Petroleum Production and Exploration Association
 - Consult Australia
 - Consumers Federation of Australia
 - Engineers Australia
 - Institute of Chemical Engineers Australia
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 - Process Control Society
 - The University of Queensland
 - Workplace Health and Safety Queensland
 - WorkSafe Victoria
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This Standard was issued in draft form for comment as DR AS 61508.6.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 61508.6—2011

Functional safety of electrical/electronic/programmable electronic safety-related systems

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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 61508.6—2001.

The objective of this revision is to adopt the current edition of IEC 61508-6.

This Standard is identical with, and has been reproduced from IEC 61508-6 Ed.2.0 (2010), *Functional safety of electrical/electronic/programmable electronic safety-related systems—Part 6: Guidelines on the application of IEC 61508-2 and IEC 61508-3*.

As this Standard is reproduced from an International Standard, the following applies:

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<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
60947	Low-voltage switchgear and controlgear	60947	Low-voltage switchgear and controlgear
60947-5-1	Part 5-1: Control circuit devices and switching elements—Electromechanical control circuit devices	60947.5.1	Part 5.1: Control circuit devices and switching elements—Electromechanical control circuit devices
61508	Functional safety of electronic/electronic/programmable electronic safety-related systems	61508	Functional safety of electronic/electronic/programmable electronic safety-related systems
61508-1	Part 1: Requirements for electrical/electronic/programmable electronic safety-related systems	61508.1	Part 1: Requirements for electrical/electronic/programmable electronic safety-related systems
61508-3	Part 3: Software requirements	61508.3	Part 3: Software requirements
61508-4	Part 4: Definitions and abbreviations	61508.4	Part 4: Definitions and abbreviations
61508-7	Part 7: Overview of techniques and measures	61508.7	Part 7: Overview of techniques and measures

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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