AS 61508.2—2001
IEC 61508-2:2000

Australian Standard™

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

Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems

Standards Australia

This Australian Standard was prepared by Committee IT-006, Information Technology for Industrial Automation and Integration. It was approved on behalf of the Council of Standards Australia on 18 April 2000 and published on 19 June 2001.

The following interests are represented on Committee IT-006:

Australian Electrical and Electronic Manufacturers Association

CSIRO Centre for Planning and Design

CSIRO Manufacturing Science and Technology

Industrial Instrument Industry Association of Australia

Institution of Engineers Australia

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PREFACE

This Standard was prepared by the Standards Australia Committee IT-006, Information Technology for Industrial Automation and Integration.

The objective of this Standard is to provide designers of safety lifecycle activities in systems comprised of electrical/electronic/programmable electronic devices with the requirements for techniques and measures that are graded against safety integrity levels, for the avoidance and control of faults and failures.

This Standard is identical with and has been reproduced from IEC 61508-2:2000, *Functional safety of electrical/electronic/programmable electronic safety-related systems — Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems*.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (example). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

In this Standard, the following print types are used:

– requirements proper: in arial type;

– *test specifications: in italic type;*

– explanatory matter: in smaller arial type.

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

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text 'this standard' should read 'this Australian Standard'.

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The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

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