

AS 61508 Supplement 1—2012

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

Supplement 1: Commented version

(Supplement 1 to AS 61508 series)



This Australian Standard Supplement was prepared by Committee IT-006, Industrial Process Measurement, Control and Automation. It was approved on behalf of the Council of Standards Australia on 16 March 2012.
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Supplement through their representation on the Committee.

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PREFACE

This Supplement was prepared by the Standards Australia Committee IT-006, Industrial Process Measurement, Control and Automation.

This Supplement is identical with and has been reproduced from *S+ IEC 61508 Commented Version—Functional safety of electrical/electronic/programmable electronic safety-related systems* as a supplement to the AS 61508 series.

The AS 61508 series comprises:

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- 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems
- 61508.1 Part 1: General requirements
- 61508.2 Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems
- 61508.3 Part 3: Software requirements
- 61508.4 Part 4: Definitions and abbreviations
- 61508.5 Part 5: Examples of methods for the determination of safety integrity levels
- 61508.6 Part 6: Guidelines on the application of AS 61508.2 and AS 61508.3
- 61508.7 Part 7: Overview of techniques and measures

The IEC 61508 Commented Version is a marked-up and commented single-file PDF version of IEC 61508 Parts 1 to 7; complete with bookmarks, links and cross-references; and enriched with:

- track changes in red, highlighting all the changes made to the technical content of Edition 1.0;
- hundreds of comments by a leading expert in Functional Safety, indicated by a yellow-background number. Mousing over a number will display a pop-up note with a comment;
- figures associated with comments, indicated by a green paperclip; and
- a summary of comments and attachments, provided at the end of the file.

The single-file PDF Commented Version is enabled for user commenting and reviewing.

A separately published document AS 61508.0—2006, *Functional safety of electrical/electronic/programmable electronic safety-related systems, Part 0: Functional safety and AS 61508*, (adopted from IEC/TR 61508-0:2005) introduces the concept of functional safety and gives an overview of the AS 61508 series of standards. You should read AS 61508.0—2006 if you—

- wish to know whether AS 61508 applies to you;
- are involved in the development of electrical, electronic or programmable; electronic systems which may have safety implications; or
- are drafting any other standard where functional safety is a relevant factor.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FUNCTIONAL SAFETY OF ELECTRICAL/ELECTRONIC/ PROGRAMMABLE ELECTRONIC SAFETY-RELATED SYSTEMS –

Part 1: General requirements

FOREWORD

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This Redline version provides you with a quick and easy way to compare all the changes between this standard and its previous edition. Additions and deletions are displayed in red, with deletions being struck through.

International Standard IEC 61508-1 has been prepared by subcommittee 65A: System aspects, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 1998. This edition constitutes a technical revision.

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