



## Essential requirements for gas equipment

**STANDARDS**  
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This Australian Standard® was prepared by Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 29 August 2017. This Standard was published on 19 September 2017.

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- Association of Accredited Certification Bodies
  - Australian Gas Association
  - Consumer Electronics Suppliers Association
  - Consumers Federation of Australia
  - Energy Networks Association
  - Gas Appliance Manufacturers Association of Australia
  - Gas Energy Australia
  - Gas Technical Regulators Committee
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This Standard was issued in draft form for comment as DR AS 3645:2017.

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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Australian Standard®

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equipment**

Original as AS 3645—2010.  
Second edition AS 3645:2017.

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Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 904 1

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances, to supersede AS 3645—2010. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide the essential requirements applicable to gas equipment for which regulatory approval is required before sale.

This Standard is intended to provide a uniform set of requirements that need to be addressed under any gas equipment certification scheme as called up in legislation. These requirements are to assist in achieving a harmonized scheme for gas equipment certification, in particular the scheme described in ‘Gas Equipment Certification Scheme—The Rules’.

Each Australian State and Territory has laws that require gas equipment known as Type A (e.g. domestic appliances) to be certified in accordance with a set of scheme rules before they can be sold or installed. This involves testing and labelling of the gas equipment for compliance with recognized standards.

In the preparation of this Standard, consideration was given to the following publications:

- (a) European Council, *Gas Appliances Directive*.
- (b) AS/NZS 3820, *Essential safety requirements for electrical equipment*.
- (c) *Guideline of essential safety requirements for Type A appliances*, issued in Australia by Gas Technical Regulators Committee (GTRC) in December 2001.

The Standard is intended to be consistent with the criteria of the European Council Gas Appliance Directive; but it does not include other essential aspects included in the European system which are necessary for a complete product compliance system, for example:

- (i) Third party verification of production quality assurance systems.
- (ii) Endorsed product specification documentation.
- (iii) Endorsed instruction documentation for installation, user and maintenance.
- (iv) Compliance testing while using test gases and gas supply and burner pressure that are applicable to the intended installation locality.

This Standard is not a substitute for Standards that set out objective safety requirements based on testing. Rather it provides a high-level generic description of the safety and other outcomes to be achieved and is intended to assist in providing a basis for regulatory uniformity. Specific product Standards provide measurable criteria that are regarded as the means for ensuring that the outcomes described in this Standard will be met.

Regulatory Authorities generally provide a transition period of 2 years from the date of publication for the application of new or amended requirements of any Standard referenced in Appendix A, unless otherwise specified within legislation, or the Standard or a set of scheme rules as accepted by each Australian state and territory. Refer to the relevant regulatory authority for further information.

AS/NZS 5601 series of Standards provides essential requirements and means of compliance for gas installations. Any reference to 'AS/NZS 5601' in this Standard should be considered as reference to the appropriate part of AS/NZS 5601 series of Standards (i.e. AS/NZS 5601.1, *Gas installations, Part 1: General installations*, or AS/NZS 5601.2, *Gas installations, Part 2: Gas installations in caravans and boats for non-propulsive purposes*).

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

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## STANDARDS AUSTRALIA

# Australian Standard Essential requirements for gas equipment

## SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard sets out essential requirements for gas equipment.

Gas equipment specifically designed for use in industrial processes carried out on industrial premises is excluded.

#### NOTES:

- 1 Other issues related to fitness for purpose, serviceability, installation and certification are covered in relevant Standards.
- 2 Other statutory and regulatory requirements, such as electrical safety requirements, may be applicable to gas equipment. It is the supplier's responsibility to ensure that gas equipment complies with such requirements.

### 1.2 OBJECTIVE

The objective of this Standard is to ensure that gas equipment is designed and constructed in accordance with good engineering practice such that it does not endanger the safety of persons (particularly children, the elderly and people with disabilities), domestic animals or property, when correctly installed and maintained and used in applications for which it was intended.

### 1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard. Appendix A lists other specific Standards that apply to particular types of equipment for the purpose of demonstrating conformance to this Standard.

#### AS

4564 Specification for general purpose natural gas

4670 Commercial propane and commercial butane for heating purposes

#### AS/NZS

5601 Gas installations

5601.1 Part 1: General installations

5601.2 Part 2: Gas installations in caravans and boats for non-propulsive purposes

Gas Technical Regulators' Committee (GTRC)

Gas Equipment Certification Scheme—The Rules

### 1.4 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

#### 1.4.1 Combustion products

Constituents resulting from the combustion or oxidation of gas with oxygen, including the inerts associated with the gas and the oxygen but excluding any other diluent or contaminant.