

AS ISO 21789:2014
ISO 21789:2009

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Gas turbine applications—Safety



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The following are represented on Committee AG-011:

- Australian Petroleum Production and Exploration Association
- Energy Networks Association
- Engineers Australia
- Gas Appliance Manufacturers Association of Australia
- Gas Energy Australia
- Gas Technical Regulators Committee
- Independent Chairperson
- Master Plumbers and Mechanical Services Association of Australia

Additional Interests:

- Major Commercial/Industrial Gas Equipment Manufacturer
 - Major Industrial Gas Installations
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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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PREFACE

This Standard was prepared by the Standards Australia Committee AG-011, Industrial and Commercial Gas-Fired Appliances.

The objective of this Standard is to provide the safety requirements for gas turbine applications using liquid or gaseous fuels, and the safety related control and detection systems and essential auxiliaries for all types of open cycles (simple, combined, regenerative, reheat, etc.) used in onshore and offshore applications, including floating production platforms.

This Standard is identical with, and has been reproduced from ISO 21789:2009, *Gas turbine applications—Safety*.

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

- (a) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

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4413	Hydraulic fluid power—General rules relating to systems	2671	Hydraulic fluid power—General requirements for systems
4414	Pneumatic fluid power—General rules relating to systems	2788	Pneumatic fluid power—General requirements for systems
6183	Fire protection equipment—Carbon dioxide extinguishing systems for use on premises—Design and installation	6183	Fire protection equipment—Carbon dioxide extinguishing systems for use on premises—Design and installation
		AS/NZS ISO	
14001	Environmental management systems—Requirements with guidance for use	14001	Environmental management systems—Requirements with guidance for use
		AS ISO	
14520	Gaseous fire-extinguishing systems—Physical properties and system design	14520	Gaseous fire-extinguishing systems—Physical properties and system design
14520-1	Part 1: General requirements	14520.1	Part 1: General requirements

IEC		AS/NZS	
60079	Explosive atmospheres	60079	Explosive atmospheres
60079-0	Part 0: Equipment—General requirements	60079.0	Part 0: Equipment—General requirements
60079-14	Part 14: Electrical installations design, selection and erection	60079.14	Part 14: Electrical installations design, selection and erection
60079-17	Part 17: Electrical installations inspection and maintenance	60079.17	Part 17: Electrical installations inspection and maintenance
60079-29-1	Part 29-1: Gas detectors—Performance requirements of detectors for flammable gases	60079.29.1	Part 29.1: Gas detectors—Performance requirements of detectors for flammable gases
60079-29-2	Part 29-2: Gas detectors—Selection, installation, use and maintenance of detectors for flammable gases and oxygen	60079.29.2	Part 29.2: Gas detectors—Selection, installation, use and maintenance of detectors for flammable gases and oxygen
60079	Electrical apparatus for explosive gas atmospheres	60079	Electrical apparatus for explosive gas atmospheres
60079-4	Part 4: Method of test for ignition temperature	60079.4	Part 4: Method of test for ignition temperature
60079-10	Part 10: Classification of hazardous areas	60079.10	Part 10: Classification of hazardous areas
60079-20	Part 20: Data for flammable gas and vapours, relating to the use of electrical apparatus	60079-20	Part 20: Data for flammable gas and vapours, relating to the use of electrical apparatus
IEC		AS	
60204	Safety of machinery—Electrical equipment of machines	60204	Safety of machinery—Electrical equipment of machines
60204-1	Part 1: General requirements	60204.1	Part 1: General requirements
60204-11	Part 11: Requirements for HV equipment for voltages above 1000 V a.c. or 1500 V d.c. and not exceeding 36 kV	60204.11	Part 11: Requirements for HV equipment for voltages above 1000 V a.c. or 1500 V d.c. and not exceeding 36 kV
60529	Degrees of protection provided by enclosures (IP Code)	60529	Degrees of protection provided by enclosures (IP Code)
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-6-4	Part 6-4: Generic standards—Emission standard for industrial environments	61000.6.4	Part 6.4: Generic standards—Emission standard for industrial environments
61508	Functional safety of electrical/electronic/programmable electronic safety-related systems	61508	Functional safety of electrical/electronic/programmable electronic safety-related systems
61508-1	Part 1: General requirements	61508.1	Part 1: General requirements
		AS IEC	
61511	Functional safety—Safety instrumented systems for the process industry sector	61511	Functional safety—Safety instrumented systems for the process industry sector
61511-1	Part 1: Framework, definitions, systems, hardware and software requirements	61511.1	Part 1: Framework, definitions, systems, hardware and software requirements

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