



Hot Work

Standard

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About This Standard

Purpose

This Standard defines the key principles and business rules for controlling risks associated with ignition sources that may lead to fire or explosion.

Implementation of this Standard will ensure the HSE risks of hot work associated with Company activities are reduced to a level that is As Low As Reasonably Practicable (ALARP).

Scope

This Standard applies to:

- All Company operated and controlled activities;
- Company personnel undertaking any Hot Work activity.

Intended user

Intended users of this Standard are personnel and entities who:

- Are required to plan, manage, conduct, or are involved with "hot work",
- or
- Have an accountability to ensure this Standard is complied with, on behalf of the Company.
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1. Business Rules

1.1. Hazard Identification and Risk Assessment

Business Principle	Hazards and risks associated with hot work shall be systematically identified, assessed and controlled to ALARP.
Business Rules	• Risk assessments shall be conducted throughout the construction, commissioning, start-up, operations and decommissioning stages and include consideration of hot work hazards, assessment of associated risks and the development of the controls required to achieve ALARP. • Where feasible, the need for hot work shall be eliminated or substituted with less hazardous activities. • Where the need to conduct hot work cannot be eliminated, task-based risk assessments shall be completed prior to commencing the work. • Formal risk assessments shall be conducted to identify and assess all potential emergencies involving hot work activities, including fire and explosion from the ignition of flammable or explosive substances, to identify credible emergency events and associated response requirements.

1.2. Facility and Equipment Design

Business Principle	All facility, plant and equipment designs shall be 'fit-for-purpose', meet applicable industry standards and be designed and constructed to help minimise risks associated with hot work activities.
Business Rules	• Facility, plant and equipment designs shall include provisions for the safety of personnel who may be exposed to hot work hazards, including personnel who conduct the hot work. This may include purpose-built (designated) hot work areas such as workshops in safe zones or portable pressurised welding huts, suitable fire protection equipment, isolation and purging/ venting/ draining facilities, etc. • All portable fire extinguishers used during hot work shall meet the applicable requirements of relevant Australian Standards (AS 1851, AS 2444). • All hot work equipment shall meet the applicable requirements of 'Section 4 – Hot Work Equipment' of Australian Standard AS 1674.1.

1.3. Safe Systems of Work Procedures

Business Principle	Company hot work procedures that describe safe work methods shall be in place.
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Business Rules

- Procedures shall be based on applicable aspects of Australian Standard AS 1674.1, including those relating to the inspection, cleaning, purging and venting of drains, vessels or equipment before the commencement of hot work.
- Company procedures shall include a requirement to conduct any hot work, other than that undertaken in a designated hot work area, under the control of a duly authorised Hot Work Permit.

Business Principle

Documentation and records associated with hot work shall be systematically managed.

Business Rules

- All hot work documents and records shall be maintained according to Company document control and records management standards and procedures, including:
 - Training, instruction and competency assessment records;
 - Maintenance and inspection records;
 - Hot work risk assessments; and
 - Hot work permits.

1.4. Execution of work

Business Principle

All hot work equipment shall be used and maintained to ensure its ongoing integrity and safety.

Business Rules

- All hot work equipment shall be inspected, serviced and calibrated (where required) at regular intervals according to original equipment manufacturer (OEM) specifications.
- All portable hot work equipment, including personal protective equipment (PPE), shall be visually inspected and checked or tested by the user or operator before each use and any defective equipment tagged as "Out of Service"
- All hot work equipment shall be located so that, in the event of equipment malfunction, the risk of a fire or explosion hazard is minimised.
- All welding and gas cutting equipment and associated gas cylinders shall be used and maintained in accordance with the requirements of the Company [Welding, Gas Cutting & Gas Cylinder Safety Standard](#).

Business Principle

Controls shall be in place to effectively manage potential fire and explosion risks associated with hot work locations.

Business Rules

- All hot work locations shall be kept free from combustible waste, rubbish and other flammable materials, other than materials directly associated with the hot work.
- Before any hot work commences, arrangements shall be made to prevent any hot work materials (e.g. work off-cuts,

	hot metal, slag, electrode stubs, etc.) from lodging in places where there is a possibility of starting a fire. • Barricading and signage used to control access to hot work locations shall be in accordance with the Company Barricading and Signage Standard. • Controls shall be developed and implemented to prevent unauthorised ignition sources from entering areas where there is potential for flammable or combustible gas, vapour, fume or dust. • All areas where hot work is likely to be undertaken shall be provided with adequate means for the safe storage and disposal of flammable and combustible waste.
Business Principle	Hot work locations shall be inspected and monitored to minimise the potential for fire, explosion or ignition.
Business Rules	• All hot work locations, including adjacent areas and areas below the proposed hot work, shall be inspected at appropriate times during and after hot work, to monitor for fires, potential hot spots, and ignition sources. • Company hot work procedures shall define when a competent Fire Watch shall be present to ensure the risk of ignition, fire and/or explosion is effectively mitigated. • The number and location of Fire Watch personnel shall be determined following site inspections and risk assessment (for example, hot work impacting multiple areas or levels may require more than one Fire Watch). • Company hot work procedures shall define the roles / responsibilities of the Fire Watch. • Following the completion of hot work, the Fire Watch shall conduct inspections of the hot work location and adjacent areas for at least 30 minutes, or longer if required under the Hot Work Permit, to ensure that no possibility of fire exists.

1.5. Authorisation, Training and Competency

Business Principle	All personnel involved in conducting, supervising, planning or authorising hot work shall be authorised and competent to perform their roles.
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Business Rules

- Specific training requirements, based on applicable nationally recognised (or equivalent international) competencies or industry practice, shall be developed and implemented for personnel who undertake any hot work that could pose a risk to personnel, assets or the environment, as approved by Company.
 - Persons who are required to authorise, supervise or undertake hot work or act as Fire Watch shall be provided with suitable instruction or training in the following:
 - Hazards and risks associated with hot work;
 - Risk assessment requirements and methods to be used;
 - The site's Permit to Work system;
 - Specific documentation requirements (e.g. Hot Work permits);
 - Permit to Work conditions (e.g. certificate validity, required signatures, specific precautions, handovers, etc.);
 - Management of change in conditions (e.g. emergencies, changing conditions, Permit To Work suspension, etc.); and
 - Specific emergency response requirements, including raising the alarm and use of portable fire protection equipment.
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1.6. Manage Change

Business Principle

Risks associated with change during hot work shall be identified and assessed.

Business Rules

- Where any changes occur during hot work activities, the risks shall be assessed, and controls implemented according to applicable Company change management standards and procedures.
 - A re-assessment of risks shall occur following the re-commencement of work after a work break, at the start of a new shift, or if the work scope, workplace, or work in the vicinity changes.
 - Risks associated with changes to hot work procedures, equipment, or resources (including competency requirements) shall be subject to the Company Management of Change process.
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1.7. Emergency Management

Business Principle	Effective emergency response capabilities shall be in place to respond to all potential emergencies involving hot work activities.
Business Rules	• A suitable risk-based emergency response system shall be in place and available to effectively respond whenever hot work is being conducted. • The emergency response system used to respond to fire and explosion emergencies shall be regularly tested (at least annually) through practical emergency drills or exercises to ensure it remains effective. • Where a fire has occurred that required extinguishing by portable or permanent fire-extinguishing equipment, additional precautions shall be taken as required under 'Section 6 – After Fire Has Occurred' of Australian Standard AS 1674.1.

2. Monitor, Assure and Improve

Compliance with this Standard shall be monitored in accordance with the Company Assurance Standard. Changes made to this Standard shall be subject to Company management of change processes. Relevant Technical Authority(s) and Subject Matter Expert(s) must be consulted and involved in revisions to this Standard.

The Owner of this document can be found [here](#).

Refer to the [Management of Change Standard](#) and [Technical Authority Register](#).

3. Abbreviations and Definitions

Abbreviation / Term	Definition
ALARP	As Low As Reasonably Practicable. Risks are considered to be as low as reasonably practicable if the sacrifice (cost, time, resources) required to implement further risk reduction is grossly disproportionate to the benefits received.
Designated (Safe) Hot Work Area	An area in which typical hot work tasks (such as welding, grinding, friction cutting, etc.) may be undertaken safely and with confidence that: • Combustible or flammable items / fuels are well clear of the hot work task; • Suitable fire protection controls are easily accessible; • There is adequate ventilation, lighting, space and work surfaces to easily perform the hot work tasks without additional hazards being created; • There is adequate shielding, floor / catch protection and PPE in the location to ensure the safety of those performing hot work tasks and those in close vicinity to the tasks; and • The area is free from flammable or explosive substances (liquids, gas, dust, fumes, vapours, mists, etc.). For example, a designated hot work workshop on an Ichthys facility.
Fire Watch	A competent person assigned to continuously observe hot work and who has specific fire prevention duties.
Hot Work	Hot Work includes any work that creates an ignition source performed in an area which potentially contains hydrocarbons or flammable material. Ignition sources are open flames or sources of heat that could ignite materials in the work area such as welding, grinding, smoking, torching, (un) loading of hazardous materials, internal combustion engines, chemical reactions batteries etc
HSE&Q	Health, Safety, Environment and Quality
OEM	Original Equipment Manufacturer
PPE	Personal Protective Equipment
Unauthorised ignition sources	Any unauthorised item entering a hazardous area that could pose an ignition source such as: mobile telephones, cameras, iPods, battery-powered equipment or instruments, diesel or petrol engines, matches or lighters, etc.

4. Reference and Compliance Documents

The documents listed below are relevant to the execution of this Standard:

Reference documents (R) are documents referred to in the course of implementing this Standard.

Compliance documents (C) include all standards, regulatory governance, contracts, business rules or policies applicable to this Standard.

Internal Documents			
Document Name	R	C	Document Number
Policies			
Health, Safety, Security, Environment and Quality Policy		C	0000-AH-POL-70000
Standards			
Assurance Standard	R	C	0000-A0-STD-60031
Permit To Work Standard		C	0000-AH-STD-60023
Business Management System Standard	R	C	0000-A0-STD-60015
Confined Space Standard		C	0000-AH-STD-60021
Gas Testing Standard		C	0000-AH-STD-60027
Incident Reporting and Investigation Standard		C	0000-AH-STD-60050-
Welding, Gas Cutting and Gas Cylinder Safety Standard		C	0000-AH-STD-60035
Barricading and Signage Standard		C	0000-AH-STD-60038
Portable Hand and Power Tools Standard		C	0000-AH-STD-60029
Management of Change Standard	R	C	0000-A0-STD-60027
Emergency and Crisis Management Standard		C	0000-AH-STD-60051
Specifications, Guidelines, Work Instructions, Forms, Templates			

Technical Authority Register	R	C	0000-A2-LIS-60001
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External References	
Code / Number	Title
AS 1674.1	Australian Standard AS 1674.1 – 2025 <i>Safety in welding and allied processes – Part 1: Fire precautions.</i>
AS 1851	Australian Standard AS 1851 – 2012 <i>Routine service of fire protection systems and equipment.</i>
AS 1940	Australian Standard AS 1940-2017 <i>The storage and handling of flammable and combustible liquids.</i>
AS 2419	Australian Standard 2419.1 – 2021 <i>Fire hydrant installations - System design, installation and commissioning.</i>
AS/NZS 60079	Australian New Zealand Standard 60079.10.1 – 2022 <i>Classification of areas – Explosive gas atmospheres</i> Australian Standard AS 60079.29.2 - 2016 <i>Explosive atmospheres Part 29.2: Gas detectors – Selection, installation, use and maintenance of detectors for flammable gases and oxygen.</i>
AS 2441	Australian Standard AS 2441 - 2005 <i>Installation of fire hose reels.</i>
AS 2444	Australian Standard AS 2444. - 2001 <i>Portable fire extinguishers and fire blankets - Selection and location.</i>

5. Record of Amendment

Revision	Section	Amendment
2	2	Revised to align with the Company standard BMS terms and requirements.
	3	Revised definition of hot work to align with IOGP and consistency across associated documents.
	4	Updated external reference table: with current AS 1674.1-2025.
	General	Updated to align with new Company standard template.