

Ultralow Temperature Refrig	peration SAFE WORK ME	THOD STATEMENT (SWMS)
TASK OR A	CTIVITY: Ultralow Temperature I	Refrigeration	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E ail:	
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE PC. OF TP' ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduthe proposed work starts.			statement (SWMS) is prepared before
Full Name:			
Signature:		Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	compliant e of the SWIL as well as re	eviews and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS VMS HAVE THE FOLLOWING COMMUNICATED	NA. 2 OF ALL RELEVANT PERSONN EVELOPMENT AND APPROVAL OF	NEL WHO HAVE BEEN CONSULTED AND FITHIS SWMS	COMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched ed in accorde with regislative requirements to first identify any site hazards, to continue to those hazards and then to further take steps to either eliminate or conditional leach hazard.			
If an incident or a near miss occurs, all work must stead dately. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.			
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.			
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.			



CLIENT OR PRINCIPAL	CONTRACTOR DETAILS
Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date SWMS supplied to Project Manager:	
ANY HIGH-RISK CONSTRUCTOR	ON WC & BEIN C & RIED OUT
involves a risk of a person falling more than 2 meters	is carried out on or near pressurised gas mains or piping
☐ is carried out on a telecommunication tower	carried out on or near chemical, fuel or refrigerant lines
☐ involves demolition of an element of a structure that is load-hearing	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical interrity structure	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing as	☐ involves tilt-up or precast concrete
involves structural alteration or repair the requires to rary so port to prevent collapse	☐ is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor
☐ is carried out in or near a confined space	☐ is carried out in an area of a workplace where there is any movement of powered mobile plant
is carried out in/near a shaft or trench deeper an or tunnel involving use of explosives	☐ is carried out in areas with artificial extremes of temperature.
is carried out in or near water or other liquid that involves a risk of drowning.	involves diving work.
ANY HIGH-RISK MACHINER	Y OR EQUIPMENT NEARBY



	RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION		HEIRARCHY OF CONTROLS		
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	SCORE	SCORE	ACTION		Elimination Remoy e the hazard.
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCE		Substitution		
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.		Replace the hazard.		
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolation Isolate People from the hazard		
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and records		Engineering Isolate the hazard.		
is the second m	archy of Controls: nost effective methologing the work is	od of controlling a	a hazard. Engine	ering by isolat	ion is the in nost e	e tive, while	ard. Substitution e Administrative least effective		Administrative Change the work. PPE		

						TIVE EQUIPM					
		Select the app	ropriate PPL	abo. suitat	or the equip	oment used or	the job task	being perfori	med (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	TEARING STION	P _CTION	PROTECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
Other PPE R	equired:										
	Pe	ermit or Licen	ses Requirem	ents		Mandatory Qualifications and Training					



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Incorrect use of equipment, Poor maintenance	2M	 Conduct thorough training sessions for a personnel to ensure correct usage and understanding of equipment manuals. Implement a routine maintenance schedule, thoug to manufacturer guidelines and maintaining a log for inspections. Provide personal protective quipment (PPE) states as a ves and face shields specifically rated for ultralow temperature. Introduce a provecheck of temporare a secondarianed individual verifies the setup and operation of equipment to ore use. Develop and of forces plear protocolor reporting and addressing equipment malfunctions or wear immerably. Ensuration equipment is only operated by individuals who have demonstrated competence through assess and. Display clear, whible safety signage around the equipment outlining operating procedures and enough y protocols. Arrang periodic audits and reviews of equipment condition and usage practices by an external expert in rigeration safety. Ruep updated on latest industry standards and best practices for ultralow temperature equipment operation and incorporate these into work procedures. Establish emergency response procedures specific to equipment failure or exposure incidents and conduct regular drills. 	1L
2. Equipment Check	Poor maintenance, Defective equipment	3Н	 Conduct regular maintenance checks according to the manufacturer's guidelines to ensure equipment is in good working condition. Implement a routine inspection schedule before each use to identify potential defects or wear and tear. Keep a detailed maintenance log for each piece of equipment, recording dates of service, issues identified, and actions taken. Provide training sessions for employees on identifying visual signs of equipment damage or malfunction. Ensure all repair and maintenance work is performed by qualified technicians with experience in ultralow temperature refrigeration systems. Replace parts that show signs of damage or excessive wear promptly to prevent equipment failure. Use only manufacturer-approved replacement parts and accessories to maintain equipment integrity and performance. Establish a tagging system to clearly label defective equipment as "Out of Service" until repairs are completed and verified. 	1L

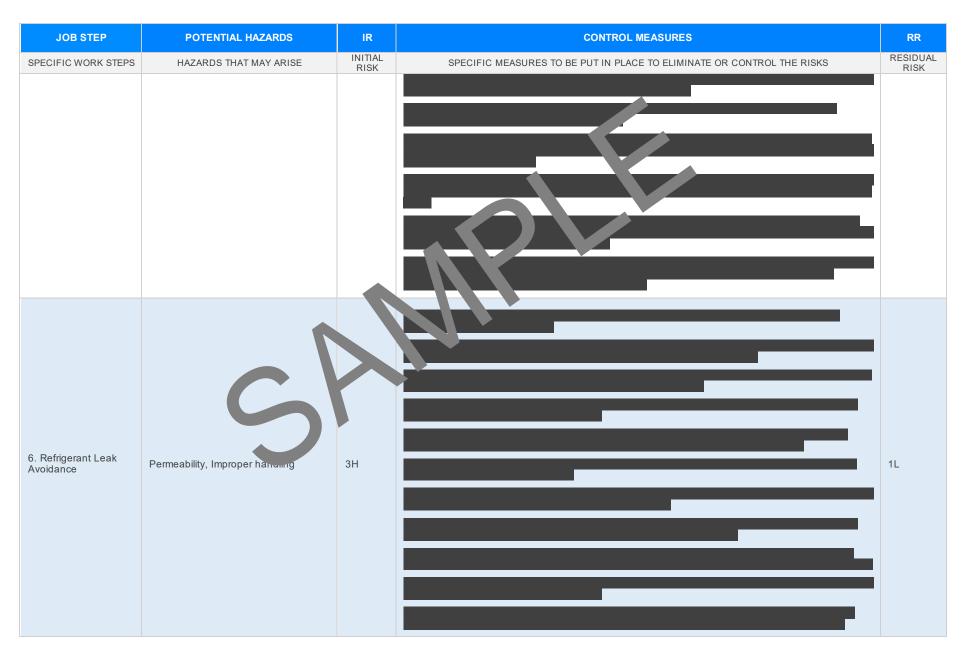


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			- Develop an emergency response procedure in case of equipment failure to minimise risks to personnel and other assets.	
			- Regularly review and update the equipment safe standards and protocols to align with industry best practices and technological advancements.	
			- Conduct thorough inspections of electrical anneoting and components before starting the system to detect any visible faults or wear.	
			- Verify that all personnel interved are adequate trained in candling ultralow temperature refrigeration systems and understand potential hazards.	
			- Implement locks and proce ares during maintenance to prevent accidental start-up of the system while repairs a being man.	
			- Ensure all gardines and rungs are processing sealed and routinely checked for integrity to prevent leaks.	
			- Use a certificative essionals to perform system start-up and routine maintenance to ensure adherence to safe protocols.	
3. System Startup	Electrical faults, Gas leaks	3H	- Equip the call with a propriate personal protective equipment (PPE), such as insulated gloves and safety gogle to protect against exposure to refrigerant gases.	2M
			- tall g is detection systems around the refrigeration units to provide early warnings of potential gas leaks.	
			Position emergency shut-off controls clearly and accessibly in case of an electrical or gas-related in lent requiring immediate response.	
			Regularly test and calibrate gas detection and alarm systems to ensure their reliability and accuracy.	
			- Establish a clear emergency response plan detailing steps for evacuation and containment in the event of a significant leak or electrical fault.	
			- Maintain a well-documented log of all inspections, maintenance, and repairs executed on the refrigeration system to ensure transparency and compliance with applicable standards.	
4. Temperature Monitoring	Exposure to extreme cold, Electrical faults	3H		2M



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5. Maintenance Work	Exposure to refrigerants, Inadequate training	ЗН		1L







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7. System Shutdown	Gas leaks, Electrical faults	2M		1L
8. Cleanup and Disposal	Chemical exposure, Sharp objects	2M		1L



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9. Emergency Procedures	Lack of awareness, Ineffer procedure enforcement	ЗН		2M



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10. Regular Inspection	Insufficient ventila detection system	ВН		2M



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11. Documentation and Record Keeping	Lost documents, Miscommunication	2M		1L
12. Personal Protective Equipment Use	Inadequate protection, Skin exposure	ЗН		2M



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				•
				•
13. Training and Supervision	Lack of skills, Inadequate training	4A		2M
				•
14. Safe Manual Handling	Incorrect lifting techniques, Overexertion	3H		2M



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15. Equipment and Machinery Operation	Unauthorised operation, Machinery malfunction	4A		2M



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				•
				•
				•
	•			•
	6			
16. Warehouse Inventory Management	Improper storage, Stockmishap	2M		■ 1L



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17. Hazard Communication	Misinterpretation, Lack of information	2M		114
18. Hazardous Substances Storage	Incorrect storage, Chemical leakage	4A		2M



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19. Routine Equipment Testing	Lack of regular checks, Detective equipment	ЗН		2M



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20. Purchase and Installation	Incorrect installation, Unauthorised handling	4A		2M



EMERGENCY RESPONSE - CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCE. N ANY STATEMENT ARE NOT APPLICABLE

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice

Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations

Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice

New South Wales

Work Health and Safety Act 2011

Work Health and Safety Regulations 2017

Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislations/leg

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library.

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 201

Work Health and Safety (National Uniform Legislation) Regulations 26

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/prkplate fety-lay

Codes of Practice NT: https://worksafe.nt.gov.a/ and-reso pes des ractice

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (S

Legislation for SA: https://www.safework.sa.gov.au/resources gislation

Codes of Practice for SA: https://www.safework.sa.gov.au/w/cplaces/codes-of-practice#COPs

Tasmania

Work Health and Safety Act 2012

Work Health and Safety (Transitional and Consequential Provisions) Act 2012

Work Health and Safety Regulations 2012

Work Health and Safety (Transitional) Regulations 2012

Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations

Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.

Victoria

Ocupational Health Safety A 2004

Oct ational Health an Safet segulations 2017

Legis ion VIC: https://www.orksafe.vic.gov.au/occupational-health-and-safety-act-and-

des of actice V/ attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice

Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/codes-practice <a href="https://www.commerce.wa.gov.au/worksafe/codes-practice.wa.gov.au/worksafe/codes-practice.wa.gov.au/worksafe/codes-practice.wa.gov.au/worksafe/codes-practice.wa.gov.au/worksafe/codes-practice.wa.gov

Safe Work Australia Links

Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

Model Codes of Practice

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work



SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Safe Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Signature	Date

SAFE WORK IN 'THIS 'S' ITEM ON MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remain effect, and must be reviewed (and revised if necessary) if relevant control measures are revised. The view as should be carried out in consultation with workers (including contractors as unputractors of the SWMS and their health and safety registeratives who represented that work group at the workplace.

When the SWMS has been revised the PCBD mest ensure the all persons involved with the work are advised that a revision has been made and how they can accept the revised SWMS, including all persons who will need to change a work procedure or system as a rest of the review are advised of the changes in a way that will enable them to implement their duties the total with the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

- Spot Checks.
- Consultation with workers, contractors and sub-contractors.
- 3. Internal audits on a continual basis

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							



SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	COMMENTS
The company details have been entered, including the project name and address.		
All relevant personnel consulted during the development of the SWMS.		
Name, signature, position and date signed of the person approving the SWMS.		
Specific personnel and qualifications, experience is noted in the SWMS.	Y	
Provides a step-by-step process of tasks required to carry out the activity or task.		
Adequate risk assessment of any identified hazards has been completed.	\boxtimes	
Foreseeable hazards are identified and documented for each step.	\boxtimes	
Any hazards listed in any site risk assessments have been added to the SV. 5.		
SWMS initial risk (IR) column as well as residual risk (RR) column ampleted.		
Check control measures added to the SWMS are the most effer ve sections.		
Responsible person is assigned and listed on the spherical person is assigned as a specific person of the spherical person is as a specific person of the spherical person is a specific person of the spherical per		
Permit or licenses requirements specified, so in as Hot Work, Electrical Work, Work at Heights etc.		
SWMS identifies plant and equipment to be		
Details of inspection checks required for any equipment lister are noted on the SWMS.		
Describes any mandatory qualifications, experience, and or skills required to perform the work.		
Applicable personal protective equipment is selected on the SWMS.		
Reflects and documents any legislative references and/or Australian Standards.		
Identifies any hazardous substances used with specific control measures in line with any SDS.	\boxtimes	
REVIEWED BY	DATE REV	IEWED
SIGNATURE	DATE COM	PLETED