

Confine	ed Space Welding Risk Ass	essment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON W PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ntle:	Date:
CLY		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N			



RISK MATRIX								
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation	
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the	
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang	
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP	
Ar       Objective international control and control and control and the contrelise and the control and the control and the control an						Remember to apply controls in the preferred order shown by the coloured pyramid: <ol> <li>Eliminate</li> <li>Substitute</li> <li>Isolate</li> <li>Engineering</li> </ol>		
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution				
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Work (2023) and ISO 45001:2018 clauses 6–8.           Minor breach; adverse client comment			
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
Insignificant No injury no schedule impact Deviation caught and corrected on site								



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	Inadequate ventilation, Lack of safety gear	ЗН	<ul> <li>Perform a risk assessment before initiation of work</li> <li>Ensure all personnel are trained in confined space safety</li> <li>Verify that all safety gear is readily available and in good pondition</li> <li>Develop a confined space entry permit</li> <li>Communicate the welding schedule to all involve personnel</li> <li>Set up warning signs around a confined space</li> <li>Provide personal once an equivalent (PPE) to all workers</li> <li>Ensure protoclighting insist the conned space</li> <li>Confine readilers of an imergency remonse team</li> <li>Gath the necessary welding tools and inspect for safety</li> </ul>	2M
2. Entry	Entry point hazards, Structure risks	21	<ul> <li>Condul a tenbox takenith all team members</li> <li>spectifie entranoint for structural stability</li> <li>Use generals or barriers around the entry points</li> <li>insure all entry tools and ladders are secured properly</li> <li>Provide anti-slip mats at the entry point</li> <li>Designate a safety spotter to oversee entry</li> <li>Provide adequate illumination at the entry and exit points</li> <li>Check for any obstructions around the entry point</li> <li>Establish hand signal communication for ease of entry</li> <li>Ensure personal harnesses are available and utilised</li> </ul>	2M
3. Atmospheric Testing	Toxic gases, Low oxygen levels	4A	<ul> <li>Use calibrated gas detectors to monitor air quality</li> <li>Ventilate the confined space before performing work</li> <li>Install continuous atmospheric monitors</li> <li>Implement a strict protocol for atmospheric testing</li> <li>Instruct workers on emergency procedures for toxic gas exposure</li> <li>Maintain detailed records of all atmospheric test results</li> <li>Replace air cylinders as needed</li> <li>Inform workers of atmospheric conditions regularly</li> </ul>	2M



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			- Conduct a second atmospheric test if conditions change	
			- Ensure all detectors have a valid calibration certificate	
4. Equipment Setup	Electric shock, Equipment malfunction	ЗН		1L
5. Welding Process	High temperature UJV radiation	44		2М
6. Monitoring	Fatigue, Distraction	ЗН		2М



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7. Gas Cylinder Handling	Cylinder leaks, Incorrect gas	ЗН		1L
8. Emergency Preparedness	Inadequate emerge cy record , Equipment failure	IA		1L
9. Fire Safety	Sparks igniting flammable materials, Equipment overheating	4A		2M



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10. Work Completion	Residual fumes, Post-welding sharp edges	ЗН		1L
11. Documentation and Reporting	Incomplete records, Lack of incident tracking	2М		1L
12. Review and Improvement	Re-occurring incidents, Control measure failures	2M		1L



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13. Disassembly and Equipment Removal	Manual handling injuries, Residual contamination	ЗН		1L
14. Decontamination	Chemical exposure, Environment hazards	ЗН		1L
15. Confined Space Exit	Exit obstruction, Falls during egress	3Н		1L



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#### **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 R	EFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	SISLATIVE REFERENCES ANY STATE AT 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	Victoria Occupational Health an Safety Actor of Occupational Health and Infetiv orgulations 2017 Legis from VIC: <u>https://www.eccurksafe.vic.gov.au/occupational-health-and-safety-act-and- tulations</u> Codes on viactice VICourtps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice
New South Wales         Work Health and Safety Act 2011         Work Health and Safety Regulations 2017         Legislation NSW: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislative">https://www.safework.nsw.gov.au/legal-obligations/legislative</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislative</a>	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation, 201, Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/wo</u> place- Codes of Practice NT: <u>https://worksafe.nt.gov.au/formediatestation</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_sa.gov.au/work_saces/codes-of-practice#COPs</u>	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
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: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a>	<ul> <li>First aid in the workplace</li> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> </ul>
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work	<ul> <li>Work health and safety consultation, cooperation and coordination</li> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>

- Any required documents.