

Oxy-Fu	uel Gas Welding Risk Asse	ssment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
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THIS RISK ASSESS	IENT IS APPROVED BY THE PCI	BU ON Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBU required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CLY	OR PRI CIL CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New York			



				F	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	
 A Stop work. The risk is intolerable, a minate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisation is required. 3H Review and approve additional controls the source task parts. Senior supervisor sign-off needed. 2M Ensure all nominated controls are in-prace and efficience of the source task parts. Senior supervisor monitor conditions. 1L Proceed, following standard operating procedure: Monitor and keep records. 						 Substitute Isolate Engineering 		
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat ator intervention; c		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	tice; major media	elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at		
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	Gas leakage, Inadequate ventilation	ЗН	 Inspect welding equipment for visible damages Ensure area is clear of combustible materials Check ventilation systems are operational Verify presence of fire extinguishers Use gas detectors to monitobleakage Implement a buddy system foundditional safety Conduct a pre-site same briefin Ensure all netwers use perional projective mapment (PPE) Maintin good pusekaring standard Clear work the work area boundaries 	2M
2. Cylinder Handling	Cylinder fall, Incorrect	31	 Secure cylineers in a seconight position Store or ders in a designated area Store or ders in a designated area se chains or straps to prevent falling Evaure valve protection caps are in place Replace faulty cylinder components Conduct routine inspections Train workers in manual handling procedures Label cylinders clearly with contents Restrict access to authorised personnel only 	2M
3. Setting Up Equipment	Incorrect assembly, Equipment malfunction	4A	 Follow manufacturer instructions carefully Use the correct tools for assembly Conduct pre-operational checks Ensure all connections are tight Test equipment function prior to use Perform regular maintenance checks Train operators on assembly techniques Store manuals and instructions onsite 	2M



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			- Replace or repair damaged components	
			- Double-check the assembly process	
4. Connecting Hoses	Gas escape, Pressure build-up	ЗН		1L
5. Igniting Torch	Flashback, Explosion	44		2M
6. Welding Operation	Eye injury, Burns	4A		2M



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7. Post-Welding Inspection	Structural weakness, Gas leaks	3Н		1L
8. Equipment Shutdown	Residual gas release. Injurance us shutdown	вн		2М
9. Clean-Up	Chemical exposure, Inappropriate waste disposal	ЗН		1L



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10. Final Checks and Reporting	Report omissions, Inaccurate logs	2М		1L
11. Maintenance	Tool malfunction, Inadequate servici	ЗН		1L
12. Storage of Equipment	Theft, Environmental damage	ЗН		2M



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13. Emergency Procedures	Ineffective response, Delayed alarm activation	4A		1L
14. Training	Skill deficiencies, Unfamiliarity witi equipment	ЗН		1L
15. Risk Review and Monitoring	Unidentified risks, Data inaccuracies	4A		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.

	FERENCES					
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGIS	SLATIVE 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/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health and Safety Action 04 Occupational Health and Infettor gulations 2017 Legis from VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- tulations</u> Codes of mactice VIC <u>enttps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>					
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/legislatic Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislatic	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 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workslate-state</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/worf_aces/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: 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	 Weiting 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 					
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.	 Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 					