

Oxy an	d Acet Soldering Risk Ass	essment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU OF PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		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
Risk Rating & Required Action: 4A Stop work. The risk is intolerable, cominate the hazarc predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic vis required. 3H Review and approve additional controls for exceeding and effective. Proceed with caution; monitor conditions. 2M Ensure all nominated controls are in prace and effective. Proceed with caution; monitor conditions. 1L Proceed, following standard operating procedurer Monitor and keep records. Consequence Scale:							Notes on Hierarchy of Controls: Remember to apply controls in the preferred order shown by the coloured pyramid: 1. Eliminate 2. Substitute 3. Isolate 4. Engineering 5. Administrative 6. PPE
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	eliminat		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		
			no schedule	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. Site Inspection	Uneven surfaces, Nearby flammable materials	ЗН	 Conduct a thorough walk-through to identify uneversurfaces Remove flammable materials within a 3m radius Implement barriers or warning signs around any permanent obstructions Ensure adequate lighting for visibility Provide training for site hazeful recognition to term members Assign a competent person to bonduct the prelimited view ection Ensure communication on pipment's available and functional Schedule interfections when the site as minimum activity to reduce interference Doctment finnings and communicate usual staff Re-in but the struegularly 	2М
2. Equipment Check	Faulty equipment, Gast	21	 Inspectial explomentativisible damage before use Inspectial explomentativisible damage before use Informunction ests on all tools Consist has leak tests with appropriate detection devices Insure regular maintenance schedules are followed Unuse equipment only as per manufacturer's guidelines Ensure equipment is compatible with intended job tasks Keep a log of all inspections and maintenance Train operators on equipment-specific risks Supply equipment manuals on site for reference Tag and remove any faulty equipment immediately 	2М
3. Preparation	Incorrect gas mixture, Inadequate ventilation	ЗН	 Follow manufacturer's instructions for gas mixture ratios Clearly label all gas cylinders Ensure ventilation systems are operational before starting work Conduct air quality testing in enclosed spaces Train workers on proper gas handling and mixing procedures Use appropriate extraction systems for indoor work Set up workstations near windows or vents Review Material Safety Data Sheets (MSDS) for all substances 	1L



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			- Implement permit-to-work systems for hazardous areas	
			- Monitor gas levels constantly using detection devices	
4. Personal Protective Equipment (PPE)	Inadequate protection, PPE unreliability	ЗН		1L
5. Cylinder Handling	Cylinder falls, Excursive pressure	44		2M
6. Soldering Setup	Gas leaks from hoses, Incorrect connections	ЗН		1L

Version 2.5

Review #



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7. Ignition	Flashbacks, Explosion	4A		2М
8. Soldering Process	Burns, Exposure to	зн		1L
9. Post-Soldering Inspection	Structural Weakness, Residual Gas	ЗН		1L

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10. Clean-Up	Slip hazards from spills, Residual heat	ЗН		1L
11. Documenting the Process	Incorrect records, Overlooked detail	2M		1L
12. Waste Disposal	Environmental contamination, Unregulated disposal	ЗН		1L

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13. Equipment Storage	Clutter, Tripping hazards	2М		1L
14. Emergency Protocols Review	Incomplete training, Del and recense	ЗН		1L
15. Continuous Training	Skill degradation, New risks	ЗН		1L

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6. Exit Review	Missed improvements, Unresolved issues	2M		1L



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 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	Victoria Occupational Health an Safety Act 204 Occupational Health and Infetringulations 2017 Legis from VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- gulat</u> is unles on actice VICE attps://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: 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 2015 Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wd_place-servelaws Codes of Practice NT: https://worksafe.nt.gov.au/formed_resourcestice_servelaws	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_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/acts-and-regulations	 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 						