

	Welding Risk Assessment	E	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
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THIS RISK ASSESS	IENT IS APPROVED BY THE PCI		
Under the Work Health and Safety Regulation (WHS Regulation), a 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:
CL		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	
Risk Rating & Required Action: 4A Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic is required. 3H Review and approve additional corrols to compask parts. Senior supervisor sign-off needed. 2M Ensure all nominated controls are in prace and efficience of which caution; monitor conditions. 1L Proceed, following standard operating procedurer wonitor 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	Significant regulator intervention; criminal prosecution Improvement notice; major media coverage		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	lverse client comn	nent	work (2023) and ISO 45001:2018 clauses 6–8.	
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. Preparation	Inadequate PPE, Poor ventilation	ЗН	 Conduct a site inspection to ensure adequate ventition Ensure appropriate PPE is available and wore accluding gloves, aprons, and helmets Deliver a safety briefing to all personnel durite Verify all workers have completed required starting and barries to limit across Clearly mark welding areas with signs and barries to limit across Confirm availability of fire extensishers and emerge consocedures Ensure all electromedeament is starting activated and tagged for safety Designate the afety officer is supervise seture and operations Inspers and numeration system regularly Revise 1 Safety and Sheets (SDS) for materials used 	2M
2. Setting Up Equipment	Incorrect equipment setue Electrical faults	31	 Condul a prouse check on all welding equipment Improved Lock Out Tag Out (LOTO) procedures for equipment maintenance Improved Lock Out Tag Out (LOTO) procedures for equipment maintenance Insure all electrical cables are free from damage and positioned safely Use appropriate circuit breakers to prevent electrical hazards Secure gas cylinders to prevent tipping or falling Calibrate welding machines before use Provide a first aid kit nearby and ensure trained personnel are available Regularly audit compliance with equipment setup procedures Restrict access to the setup area to authorised personnel only 	2M
3. Inspecting Materials	Faulty materials, Material contamination	2M	 Verify the quality and condition of materials prior to use Store materials in a dry, clean area to avoid contamination Use metal detectors to identify any potential material faults Conduct routine inspections of material stock Ensure materials match project specifications before usage Document material inspections and findings for accountability Isolate and label any damaged materials immediately Utilize quality control measures to maintain material standards 	1L



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			- Confirm supplier certifications for all purchased materials	
			- Provide training on identifying material faults	
4. Personal Protective Equipment (PPE)	Inadequate PPE use, PPE malfunction	ЗН		1L
5. Ventilation and Exhaust Systems	Fume inhalation,orly mainteined systems	44		2М
6. Fire Safety	Fire risk from sparks, Combustible materials	4A		2M



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7. Welding Operations	Burn hazards, Eye injuries from arc flash	4A		2М
8. Housekeeping	Trip hazards, Poor waste managemet.	2M		1L
9. Equipment Maintenance	Equipment failure, Leaks and spills	ЗH		2M



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10. Communication	Misunderstandings, Inadequate information transmission	2М		1L
11. Monitoring and Supervision	Non-compliance with procedures Unsupervised operations	ЗН		2M
12. Emergency Procedures	Delayed response, Inadequacy of procedures	4A		2М



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13. Training and Competency	Lack of skill, Inadequate training	ЗН		1L
14. Weather Considerations	Adverse weather, Heat stress	ЗН		2M
15. Closing Operations	Unauthorized access, Incomplete shutdown	2M		1L

Version 2.5



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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 F	REFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	GISLATIVE 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: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Octopational Health and Safety Action 04 Octopational Health and Safety Action 04 Octopational Health and Safety Supervised Safety Software Sof
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/legislative Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislative	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/worplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/f</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/legulation</u> Codes of Practice for SA: <u>https://www.safework.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: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice Codes of Practice for TAS:	 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
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence 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

- Any required documents.