

Perfo	rm Spot Welds Risk Asses	sment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
	1		
THIS RISK ASSESS	IENT IS APPROVED BY THE PC	BU ON Y PROJECT	
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:		ntle:	Date:
CL	OR PRI CIN L 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
4A   Stop Meth     3H   Revia     2M   Ensu     1L   Proce	eed, following star	intolerable, in VMS) or hi er-l dditional currol controls are import ndard operating	ace and efficieve. Proposed are Annual A	required. ts. Senior supervisor oceed with caution; m and keep records.	sign-off needed. nonitor conditions.		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 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	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				



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	lack of training, equipment malfunction	ЗН	<ul> <li>Ensure all workers receive proper training on spot actiding</li> <li>Regularly inspect and maintain welding equipment</li> <li>Provide safety data sheets for all material used</li> <li>Brief workers on potential hazards prior to commencement</li> <li>Assign experienced personnel to supervise the spoess</li> <li>Ensure all workers wear appropriate PPE</li> <li>Use only well-mentained relation quipment</li> <li>Implement the emergency is ponsion an</li> <li>Clear blabel and store and ding materia</li> <li>Esta is an communication plan for emergency situations</li> </ul>	2M
2. Inspect Work Area	clutter and obstacles, inadequate ventilation	21	<ul> <li>Clear the art of any distacles or debris</li> <li>Clear the art of any distacles or debris</li> <li>Surface oper thrage of all tools and materials</li> <li>Main unclear pathways for emergency evacuation</li> <li>See ventilation systems to ensure adequate airflow</li> <li>Regularly clean and maintain ventilation ducts</li> <li>Monitor air quality samples for harmful gases</li> <li>Prohibit smoking or open flames near the welding area</li> <li>Conduct regular safety inspections of the area</li> <li>Ensure adequate lighting in the work environment</li> <li>Implement signage indicating hazard zones</li> </ul>	1L
3. Set Up Equipment	incorrect setup, electrical hazards	4A	<ul> <li>Follow manufacturer guidelines for equipment setup</li> <li>Use grounding techniques to prevent electrical hazards</li> <li>Inspect cords and connections for damage</li> <li>Ensure equipment is turned off before making adjustments</li> <li>Train staff in safe equipment handling procedures</li> <li>Use insulated tools where necessary</li> <li>Implement lockout/tagout procedures during maintenance</li> <li>Use voltage detectors to ensure electrical safety</li> </ul>	2M



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			- Install RCDs (Residual Current Devices) to prevent fires	
			- Regularly test and certify electrical equipment	
4. Adjust Welding Parameters	excessive heat, incorrect settings	ЗН		1L
5. Position Work Piece	incorrect alignmer upinching hazards	ЗН		1L
6. Activate Welding Machine	spark generation, heat exposure	ЗН		2M



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7. Perform Spot Weld	weld splatter, harmful fumes	4A		2М
8. Inspect Weld Quality	structural weaknes of a cuges	зн		1L
9. Cool Down Equipment	burns from hot equipment, coolant spills	ЗН		2M



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10. Conduct Cleanup	trip hazards, incomplete removal of materials	2M		1L
11. Perform Maintenance	mechanical failure, chemical exposu	4A		2М
12. Train New Staff	inadequate knowledge, lack of oversight	ЗН		1L



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13. Monitor Heat Levels	equipment overheating, uncontrolled fires	4A		2М
14. Review Incident Reports	recurrent issues, underruction	ЗН		1L
15. Conduct Regular Audits	compliance failures, unnoticed hazards	ЗН		1L



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16. Debrief Team	miscommunication, knowledge gaps	2M		1L
17. Evaluate Equipment Usability	ergonomic strain, obsolescence	ЗН		1L
18. Update Safety Protocols	outdated procedures, missing information	ЗН		1L



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19. Engage in Continuous Improvement	stagnation, resistance to change	2М		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 RE	FERENCES						
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISL	LATIVE 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.gld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.gld.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 Actnov4 Occupational Health and Infetving gulations 2017 Legismon VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- ingulations</u> Unders on mactice VICouttps://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 acts-and-regulations"="" href="https://www.safework.nsw.gov.au/legal-obligations/legislati-codes-of-brack&lt;/td&gt;&lt;td&gt;Western Australia&lt;br&gt;Work Health and Safety Act 2020&lt;br&gt;Work Health and Safety Regulations 2022&lt;br&gt;Legislation Western Australia: &lt;u&gt;https://www.commerce.wa.gov.au/worksafe/legislation&lt;/u&gt;&lt;br&gt;Codes of Practice WA: &lt;u&gt;https://www.commerce.wa.gov.au/worksafe/codes-practice&lt;/u&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Northern Territory&lt;br&gt;Work Health and Safety (National Uniform Legislation) Act 2011&lt;br&gt;Work Health and Safety (National Uniform Legislation) Regulation 2015&lt;br&gt;Legislation NT: &lt;u&gt;https://worksafe.nt.gov.au/laws-and-compliance/weblace-set-laws&lt;/u&gt;&lt;br&gt;Codes of Practice NT: &lt;u&gt;https://worksafe.nt.gov.au/formations/incerveblace-set-laws&lt;/u&gt;&lt;br&gt;Codes of Practice NT: &lt;u&gt;https://worksafe.nt.gov.au/formations/incerveblace-set-laws&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Safe Work Australia Links&lt;br&gt;Law and Regulation (All States): &lt;u&gt;https://www.safeworkaustralia.gov.au/law-and-regulation&lt;/u&gt;&lt;br&gt;Model Codes of Practice: &lt;u&gt;https://www.safeworkaustralia.gov.au/resources-publications/model-&lt;br&gt;codes-of-practice&lt;/u&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;South Australia&lt;br&gt;Work Health and Safety Act 2012 (SA)&lt;br&gt;Work Health and Safety Regulations 2012 (SA)&lt;br&gt;Legislation for SA: https://www.safework.sa.gov.au/resources/legislation&lt;br&gt;Codes of Practice for SA: https://www.safework.sa.gov.au/work_dces/codes-of-practice#COPs&lt;/td&gt;&lt;td&gt;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&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;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: &lt;a href=" https:="" laws-and-compliance="" topics="" worksafe.tas.gov.au="">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</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> <li>Work health and safety consultation, cooperation and coordination</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 - Any required documents.	<ul> <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>						