

Robot Welder SAFE WORK METHOD STATEMENT (SWMS)								
	TASK OR ACTIVITY: Robot Weld	er						
Business Name: [Company Name]		ABN: [ABN]	SWMS#					
Business Address: [Company Address]								
Contact Person:	Phone: [Phone]	E qil:						
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE P. J OF THE PROJECT						
Under the Work Health and Safety Regulation (WHS Regulation), a person conductive proposed work starts.	cting a business or undertaking (k BU) is	s required to ture at a safe work method s	statement (SWMS) is prepared before					
Full Name:								
Signature:		Title:	Date:					
Details of the person(s) responsible for ensuring implementation, monitoring	compliance of the SWMS well as review	vs and modifications of the SWMS.						
Full Name:		Title:	Phone:					
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS WMS. ST HAVE THE FOLLOWING COMMUNICATED	N. 1E AND DATED SIGNATURE OF A	ALL RELEVANT PERSONNEL WHO HAVE B OPMENT AND APPROVAL OF THIS SWMS	EEN CONSULTED AND					
Safety meetings or toolbox talks will be sched ed in accordance with egislative requirements to first identify any site hazards, condition of unical those hazards and then to further take steps to either the steps to either th	NAME	SIGNATURE	DATE					
If an incident or a near miss occurs, all work must superately. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.								
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.								
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.								



CLIENT OR PRINCIPAL CONTRACTOR DETAILS											
Client:					SCOPE OF WORKS						
Project Name:					Provide a detailed description of the specific work being carried out (otherwis						
Project Address:			ŀ	known as cope of works).							
Project Manager	:										
Contact Phone:											
Project Manager	Signature:										
Date SWMS sup	plied to Project Manag	er:									
	ANY HIGH-RISK CON SUCT N' JRK BEING CARRIED OUT										
involves a risk of	a person falling more than	2 meters.		is carried out on of	near pressurised gas main	s or piping.					
is carried out on	a telecommunication tower			☐ is carried out on or near chemical, fuel or refrigerant lines.							
involves demoliti	on of an element of a struct	ure that is load-be		is carried out on or	is carried out on or near energised electrical installations or services.						
involves demoliti	on of an element related to	the physical integrit of a st	ir e,	is carried out in an area that may have a contaminated or flammable atmosphere.							
involves, or is like	ely to involve, disturbing a	estos.		involves tilt-up or precast concrete.							
involves structura	al alteration or repair that re	mporan upp to	prevent collapse.	is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor.							
☐ is carried out in c	or near a confined space.			is carried out in an area of a workplace where there is any movement of powered mobile plant.							
☐ is carried out in/r	near a shaft or trench deepe	er than 1.5m or tunnel involv	ving use of explosives.	is carried out in areas with artificial extremes of temperature.							
☐ is carried out in c	or near water or other liquid	that involves a risk of drown	ning.	involves diving wo	rk.						
		ANY	HIGH-RISK MACHINE	RY OR EQUIPMENT	NEARBY						
Forklift	Crane/s	☐ Hoist/s	Excavator	Backhoe/Loader	Boom Lift	EWP	Genie Lift				
Trencher	Drilling Rig	Trucks		Bobcat	E Flammable Gas	Fuel	Dozer				
High Voltage	Mulcher	Tilt-up Panels	Roller	Scissor Lift	Tractor	Other -					







JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK	NAME OF PERSON
1. Preparation	Electrical hazards, Slips and falls	2М	 Conduct a thorough inspection of the work area, remove any debris or obstructions to ensure a clean and safe environment before starting the operation. Ensure that all power cables and electrical connections are in proper working condition, without any frays or damage, to ensure the risk of electrical hazards. Use appropriate PPE, such as non-conducting glown and safety footwear with slipresistant soles, to reduce the risk of injury from usual hazards and slips and falls. Clearly mark wet or slipper neas with warning ups and non-det traffic control measures (e.g., barriers or concil) to reduce the risk of situand falls. Ensure the Robert one are positioned securely on aniat and stable surface to prevent any unspected minimer furing operation, reducing the chance of slips and falls neasures equipmet. Schenle a physic remember they are aware of potential hazards and associated control measures. Establish a sume equipmet of the Robot Welder to ensure that any worn or damage poarts are replaced promptly, reducing the risk of electrical hazards and side to sure they are supply is isolated and there is no risk of accidental startup lating to electrical hazards. Install adequate lighting in the work area to maintain high visibility levels and minimise the risk of slips and falls. Provide clear instructions and necessary supervision to ensure workers perform tasks safely, adhering to best practices and following established procedures. Develop an emergency response plan in case of incidents related to electrical hazards. Regularly review and update the SWMS to reflect any changes in the work environment or the introduction of new equipment or processes, ensuring it remains relevant and effective in controlling hazards associated with the preparation and operation of the Robot Welder. 	1L	
2. Programme Robot Welder	Crush injuries, Pinch points	ЗН	 Conduct a thorough risk assessment before programming the Robot Welder to identify and address potential hazards, including crush injuries and pinch points. Ensure that personnel involved in programming the Robot Welder are properly trained and qualified, with a clear understanding of the risks associated with their tasks. 	2M	



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			 Utilise appropriate personal protective equipment (PPE) such as gloves, eye protection, and long sleeves to minimise the risk of injury from crush injuries or pinch points. Implement lockout/tagout procedures during the programming process to prevent accidental startup or movement of the robot welding equipment. Establish a clear boundary around the work or area or keep unauthorised personnel from entering the space while the Recencelder is being programmed, reducing the chance of incidents occurring due to turnan error or sturiosity. Maintain ongoing communication among team methereror sponsible for programming and or other the obot Welder, ensure everyone is aware of potential hazards and folles defined safety procedures. Keep all glowes and safet devices to programworking condition and check these components recently, recurring or reprint gram malfunctioning parts immediately. Regran inspectiones and connections used during the programming process, ensure the varies or pinch points. Avoid materia uildup and clutter within the workspace to reduce the chance of such trip hand here that could result in injury within the vicinity of the Robot Welder. Contacted y monitor the Robot Welder's movements and operations during the operations during the operations during the operators or other individuals in the area. Foster a strong safety culture within the workplace by holding regular meetings, providing up-to-date training, and encouraging open feedback about potential hazards, near-misses, and improvements to health and safety practices related to the Robot Welder's operation. 		
			 Provide manual handling training to employees involved in positioning material, ensuring they are aware of correct lifting techniques and posture. Regularly assess the weight and dimensions of materials to be handled and provide appropriate equipment, such as trolleys or pallet trucks, to assist workers in moving them safely. Implement a team-lifting protocol for heavy or awkward materials, including 		
3. Position Material	Manual handling injuries, Flying debris	2M	establishing clear communication channels among workers to avoid accidents and injuries.	1L	
			- Encourage workers to take regular breaks and change tasks throughout their shift to reduce the risk of manual handling injuries caused by repetitive actions or prolonged static postures.		
			- Keep the work area clean and free from obstructions that could pose tripping hazards during material handling activities.		



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			 Ensure adequate lighting and visibility in the robot welding workspace to enable proper material positioning without compromising worker safety. 		
			- Install protective shields or barriers around the received welding zone to contain any flying debris and protect workers operating near the statement of the		
			- Require all workers to wear appropriate Figure including to ves, safety glasses, and steel-toed boots during material positioning predure		
			- Regularly inspect and maintain equipment use or positioning materials, ensuring they are in good working order and safe to use.		
			- Develop an emergency response plan for situation, the material positioning issues may lead to the haza of such as tip-over or collapses.		
			- Clearly manuesignated strage at this for mutuals waiting to be positioned, and keep these at the organism to prevent the ents due to shifting or falling materials.		
			- Impound a sympton pre-loading materials into fixtures or jigs, if possible, to minimal process.		
			- Estab hit cout/tagent procedures for robot welders during material positioning, preventing accurate a vation and ensuring worker safety.		
			- gular review and update the SWMS for Robot Welder, incorporating employee feeds k and addressing identified risks or hazards promptly.		
4. Start Robot Welder	Radiation exposure, Noise hazards	ЗН		2M	
4. Start Robot Weider	Radiation exposure, Noise hazarus	511		2101	



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5. Monitoring Weld Quality	Fumes and gases, Trip hazards	2M		1L	



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6. Adjust Settings	Electrocution, Finger amputation	ЗН		2M	

Version 2.5



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7. Replace Gas Cylinder	Gas leakage, Fire hazards	2M		1L	



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8. Change Welding Wire Spool	Entanglement, Heavy lifting	2M		1L	

Date of Issue:



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	S				
9. Inspect final welding	Hot metal burns, Eye strain	2M		1L	



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10. Stop Robot Welder	Jamming accidents, Unintended movements	ЗН		2M	



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11. Remove Finished Product	Sharp edges, Manual handling injuries			1L	



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12. Clean Work Area	Fire hazards (welding restars). Slippery surfaces			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 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 Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health au Safety Act wold Occupational Health and orfety regulations 2017 Legis non VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- rulations</u> ordes of mactice VIC <u>autps://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/legislati-codes rach Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes rach	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: https://worksafe.nt.gov.au/laws-and-compliance/weigelace-serve-laws Codes of Practice NT: https://worksafe.nt.gov.au/laws-and-compliance/weigelace-serve-laws Codes of Practice NT: https://worksafe.nt.gov.au/laws-and-compliance/weigelace-serve-laws	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/codes-of-practice	 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 - Any required documents.	 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 						



SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Safe Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Position	Signature	Date	Time	Supervisor
			Date:		
			Datu		
			ı te:		
			Date:		

SAF WC A STHUD STATEMENT MONITORING AND REVIEW

The SWMS must be reviewed regularly to review the sure it remains revised if necessary) if relevant control measure are a conconsultation with workers (including contractors are subcontract of the SWMS and their health and safety representatives who re workplace.

ke sure it remains effective and must be reviewed (and are subcontractions) who may be affected by the operation sentatives who received that work group at the

When the SWMS has been revised the PCBU must ensure that all persons involved with the work are advised that a revision has been made and how they can access the revised SWMS, including all persons who will need to change a work procedure or system as a result of the review are advised of the changes in a way that will enable them to implement their duties consistently with the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

- 1. Spot Checks.
- 2. Consultation with workers, contractors and sub-contractors.
- 3. Internal audits on a continual basis.

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							



SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	TO BE DONE	COMMENTS
The company details have been entered, including the project name and address.			
Names and signatures of all relevant personnel consulted during the development of the SWMS.		P	
Name, signature, position and date signed of the person approving the SWMS.			
Specific personnel and qualifications, experience is noted in the SWMS.			
Provides a step-by-step process of tasks required to carry out the activity or task.			
Adequate risk assessment of any identified hazards has been completed.			
Foreseeable hazards are identified and documented for each step.			
Any hazards listed in any site risk assessments have been added to the SWN			
SWMS initial risk (IR) column as well as residual risk (RR) columns completed.			
Check control measures added to the SWMS are the most effecting sections.			
Responsible person is assigned and listed on the SWMS for the imement of cont, measures.			
Permit requirements specified, such as Hot Wey, Electrical Work, Verat Heights etc.			
SWMS identifies plant and equipment to be up t.			
Details of inspection checks required for any equipment listed approved on the SWMS.			
Describes any mandatory qualifications, experience vaining skills required to perform the work.			
Applicable personal protective equipment is selected on the SWMS.			
Lists any required permits or licenses.			
Reflects and documents any legislative references and/or Australian Standards.			
Identifies any hazardous substances used with specific control measures in line with any SDS.			
			·
REVIEWED BY	DATE RI	EVIEWED	
SIGNATURE	DATE CO	MPLETED	