

Cobot Welding S	AFE WORK METHOD STA	ATEMENT (SWMS)	
Т	ASK OR ACTIVITY: Cobot Weldin	ng	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E qil:	
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE PC. OF TP' ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduthe proposed work starts.	cting a business or und ring (Pu U) is	required to elect that a safe work method	statement (SWMS) is prepared before
Full Name:			
Signature:		Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	compliant e of the SWIL as well as re	eviews and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS VMS HAVE THE FOLLOWING COMMUNICATED	NA. 2 OF ALL RELEVANT PERSONN EVELOPMENT AND APPROVAL OF	IEL WHO HAVE BEEN CONSULTED AND THIS SWMS	COMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched ed in accorde with regislative requirements to first identify any site hazards, to continue to those hazards and then to further take steps to either eliminate or conditional leach hazard.			
If an incident or a near miss occurs, all work must stead dately. 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:	
Project Address:	
Project Manager:	
Contact Phone:	
Date SWMS supplied to Project Manager:	
ANY HIGH-RISK CONSTRUCTOR	ON WC & BEIN C & RIED OUT
involves a risk of a person falling more than 2 meters	is carried out on or near pressurised gas mains or piping
☐ is carried out on a telecommunication tower	carried out on or near chemical, fuel or refrigerant lines
☐ involves demolition of an element of a structure that is load-hearing	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical interrity structure	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing as	☐ involves tilt-up or precast concrete
involves structural alteration or repair the requires to rary so port to prevent collapse	☐ is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor
☐ is carried out in 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/near a shaft or trench deeper an or tunnel involving use of explosives	☐ is carried out in areas with artificial extremes of temperature.
is carried out in or near water or other liquid that involves a risk of drowning.	involves diving work.
ANY HIGH-RISK MACHINER	Y OR EQUIPMENT NEARBY



RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION		HEIRARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	SCORE	ACTION		Elimination Remoy e the hazard.
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCE		Substitution	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.		Replace the hazard.	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolation Isolate People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and records		Engineering Isolate the hazard.	
is the second m	archy of Controls: nost effective methologing the work is	od of controlling a	a hazard. Engine	ering by isolat	ion is the nost of	e. tive, while	ard. Substitution e Administrative least effective		Administrative Change the work.	

						TIVE EQUIPM					
		Select the app	propriate PPL	abo suitak	ok for the equip	oment used or	the job task	being perfori	med (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	THE ARING STION	P _cCTION	PROTECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
Other PPE R	equired:										
	Pe	ermit or Licen	ses Requirem	ients		Mandatory Qualifications and Training					



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	Incorrect handling of materials, Unsecured work environment	зн	Provide comprehensive training to all percentel on correct material handling techniques specific to the Cobot Welding Package. Utilise visual aids such as posters and instruction of videos that demonstrate safe handling practices. Conduct regular safety briefly a prior to shifts to vinforce caterial handling protocols. Ensure all materials are stored apperly before and over use to prevent accidental spills or drops. Implement strict neck-in and the mout system for material handling equipment. Secure all locumaterials of the work aroundent to prevent them from causing trips or falls. Instanction system and safety signage around the work area to define clear operational boundaries. Conduct has time interactions of the work environment to ensure continuous compliance with safety standards. Provided asylonges to emergency stop controls and other safety equipment for quick response in case of a choicide it. Estable coarpathways and keep them free from obstructions to ensure safe movement within the work evironment.	2M
2. Transporting Components	Collision during transportation, Dropping components	ЗН	Ensure all components are securely fastened using appropriate straps, wraps, or containment measures before transport. Use transportation aids like trolleys, forklifts, or cranes that are suitable for the weight and size of the components. Train all personnel involved in the transportation of components on proper lifting and moving techniques. Mark all components with clear handling instructions, including weight and centre of gravity, to aid safe handling. Conduct pre-transport inspections to verify that all components are secured and the transport path is clear of obstacles. Limit transport speed within the facility to reduce the risk of collisions. Utilise spotters or guides when moving large or heavy components through tight spaces. Implement and enforce a strict no-lift policy for extremely heavy or awkward components, opting instead for mechanical assistance. Establish designated routes for transporting components to minimise interaction with regular workplace traffic and reduce collision risks. Provide and enforce the use of personal protective equipment such as gloves, safety shoes, and helmets during transportation activities.	1L



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3. Unpacking Cobot	Improper tool use, Falling objects	ЗН	Provide specific training on unpacking procedures for Cobot systems to all personnel involved in the unpacking process. Utilize appropriate tools for opening package, such as safety cutters that minimize the risk of injury. Ensure that unpacking areas are clear of unaccessant assonnel and obstacles to provide a safe working environment. Position unpacking stations tear the installation area to reduce the need for further transportation of components. Use lifting aids like transport forms to handle heavy tems during unpacking to prevent injuries from lifting. Ensure that anackaging a terials and is the ed of promptly and safely to prevent slips, trips, and falls. Implement a system to the eck all components for damage immediately upon unpacking to ensure that any issue is a identification and addressed promptly. Provide the instructions and labels on the packaging regarding the handling and storage of sensitive components.	2M
4. Installing Cobot	Electrical shock, Mechanical injury	4A		2M



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5. Mounting Tilt-Tum Table	Crushing points, Device tipping	4A		1L
6. Electrical Wiring	Electrical shock, Incorrect cabling	4A		l 1L



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7. Testing Safety Systems	System failure, In implete setup	зн		1L
8. Assembling Outrigger	Collisions, Shearing points	зн		1L



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9. Connecting Power	Electrical shock, Incorrect connections	ЗН		1L



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10. Setting Safety Distances	Inadequate marking, Trip hazards	2M		1L
11. Software Configuration	Programming errors, System compatibility issues	2M		1L



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12. Operational Testing	Unexpected start, Lack of emergency stop	υH		1L
13. Handling Welded Pieces	Burns from hot surfaces, Contact with hot metal	ЗН		1L



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14. Noise Management	High noise levels, Hearing damage	2M		1L



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15. Handling Backing Gas	Gas leaks, Improper handling	3H		2M
16. Final Inspection	Overlooked defects, Non-compliance with specs	2M		1L



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17. Safety Training	Inadequate training, Misunderstand of operational procedures	ЗН		2M
18. Establishing Work Zones	Inadequate barrier setup, Access by unauthorised personnel	3H		1L



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				•
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	1			_
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19. Maintenance	Unexpected equipment Poor	3H		2 M
Procedures	maintenance practices	311		2101



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
20. Emergency Protocols	Delayed response, Ineffective emergency shutdown	4A		2M
21. Documentation and Compliance	Inaccurate records, Non-compliance with safety standards	2M		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
			XXXXXXXXX X XXXXXXX XX XXXXXXXX XX XXXXX	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	



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 REFERENCE. IN ANY STATEMENT 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/acts-and-regulations

Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-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/legislations/leg

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library.

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 201

Work Health and Safety (National Uniform Legislation) Regulations 26

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/prkplace/fety-la

Codes of Practice NT: https://worksafe.nt.gov.a/ and-reso pes des ractice

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (S

Legislation for SA: https://www.safework.sa.gov.au/resources gislation

Codes of Practice for SA: https://www.safework.sa.gov.au/w/wplaces/codes-of-practice#COPs

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

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.

Victoria

Ocupational Health Safety A 2004

Oct ational Health an Safet segulations 2017

Legis ion VIC: https://www.orksafe.vic.gov.au/occupational-health-and-safety-act-and-

les of actice VI attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice

Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/codes-practice

Safe Work Australia Links

Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

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
- 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
- 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	Signature	Date

SAFE WORK IN 'THE 'S' NTEMANT MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remain effect, and must be reviewed (and revised if necessary) if relevant control measures are revised. The view as should be carried out in consultation with workers (including contractors as unputractors of the SWMS and their health and safety registeratives who represented that work group at the workplace.

When the SWMS has been revised the PCBD mest ensure the advised that a revision has been made and how they can accept the revised SWMS, including all persons who will need to change a work procedure or system as a rest of the review are advised of the changes in a way that will enable them to implement their duties the theoretical 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:

- Spot Checks.
- 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	COMMENTS
The company details have been entered, including the project name and address.		
All relevant personnel consulted during the development of the SWMS.		
Name, signature, position and date signed of the person approving the SWMS.		
Specific personnel and qualifications, experience is noted in the SWMS.	Y	
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.	\boxtimes	
Foreseeable hazards are identified and documented for each step.	\boxtimes	
Any hazards listed in any site risk assessments have been added to the SVL 6.		
SWMS initial risk (IR) column as well as residual risk (RR) column ampleted.		
Check control measures added to the SWMS are the most effective sections.		
Responsible person is assigned and listed on the splene of control measures.		
Permit or licenses requirements specified, so n as Hot Work, Electrical Work, Work at Heights etc.		
SWMS identifies plant and equipment to be		
Details of inspection checks required for any equipment lister are noted on the SWMS.		
Describes any mandatory qualifications, experience, ang or skills required to perform the work.		
Applicable personal protective equipment is selected on the SWMS.		
Reflects and documents any legislative references and/or Australian Standards.		
Identifies any hazardous substances used with specific control measures in line with any SDS.	\boxtimes	
REVIEWED BY	DATE REVIE	WED
SIGNATURE	DATE COMPL	ETED