



Gas Metal Arc Weldir	ng SAFE WORK METHOD	STATEMENT (SWMS)	
TASK	OR ACTIVITY: Gas Metal Arc W	elding	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E 111:	
THIS SAFE WORK METHOD	STATEMENT IS APPROTO BY	THE PCL OF THE ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduct the proposed work starts.	cting a business or under (PC 1) is	required to en that 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	opliance the VMS a well as review	s and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS S VMS MY HAVE THE FOLLOWING COMMUNICATED	NA, 2 OF ALL RELEVANT PERSONNI EVELOPMENT AND APPROVAL OF	EL WHO HAVE BEEN CONSULTED AND CO	OMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched ed in accomply with gislative requirements to first identify any site hazards, hazards and then to further take steps to either eliminate or continuate hazard.			
If an incident or a near miss occurs, all work must sto, an alately. 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.			

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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 BIOK CONSTRUCTOR	NAME OF THE POLIT
ANY HIGH-RISK CONSTRUCTOR	N WC & BEIN C ARIED 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-bearing	\square is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical integral of a functure	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing asb	☐ involves tilt-up or precast concrete
☐ involves structural alteration or repair that —quires term — v sup —rt 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 that. tunnel involving use of explosives	☐ is carried out in areas with artificial extremes of temperature.
\square 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

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RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HEI	RARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	ACTION		Elimination Remove 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.	Isolate	e People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and		Engineering Isolate the hazard.	
is the second m	rchy of Controls: ost effective metho nging the work is th	d of controlling a	hazard. Enginee	ering by isolati	on is the in ost e	en 'ive, while	rd. Substitution Administrative effective		Administrative Change the work. PPE	

				PERS		TIVE EQUIPM					
		Select the app	ropriate PPŁ	abo v uitab	cor the equi	pment used or	the job task	being perforr	ned (if applica	ıble).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	HEARING ETION	P ECTION	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	ents		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	Manual handling injuries, exposure to hazardous substances	2M	- Ensure proper manual handling training is a vided to all workers involved in the Gas Metal Arc Welding (GMAW) process, including safe lifting techniques and contomic working positions. - Conduct regular risk assessments of the worker to identify potential hazards related to the welding activities and update the Safe-Work Method Stantent (SWMSY) coordingly. - Provide appropriate personal rotective equipment PPF1 acts as gloves, safety shoes, eye protection, and respiratory mask in worker to minimise expose no hazardous substances. - Implement and valintain a etaile anyentory of exardous materials and ensure up-to-date Safety Data Sheets (SDS) are readily a lessible wall works on site. - Mair in gook busek to sing practices whin the workspace, including the correct disposal and storage of harm us wan exterials generated during GMAW operations. - Store in a andle to ding gases, such as shielding gas cylinders, according to relevant Australian standal is an engulations, in well-ventilated areas away from ignition sources and other combustibles. - Adopt to gines, g controls, like fume extraction systems and local exhaust ventilation, to reduce extract on spate and gases at the source. - Estable gallar maintenance schedules for welding equipment and infrastructure, ensuring prompt hair or replacement of faulty equipment to mitigate risks associated with improper functioning tools. - Communicate clearly about GMAW-related hazards through toolbox talks, information sessions, posters, and other relevant forms of information dissemination, fostering a culture of safety awareness among workers. - Develop and implement emergency response procedures, including first aid provisions and evacuation plans, in the event of accidents involving hazardous substances or injuries sustained during GMAW operations. - Encourage open communication and reporting of workplace hazards and incidents by implementing a reporting system that ensures workers feel comfortable discussing safety concerns without fear of reprisals. - Co	1L
2. Equipment Set-Up	Electrical hazards, incorrect setup leading to malfunction or accident	3Н	 Regular inspection and maintenance: Ensure routine inspection and maintenance of all electrical equipment, including welding machines and power tools, by a licensed electrician to prevent potential electrical hazards. Safe work area: Establish a safe work area by placing proper safety signs and cordoning off the welding area to minimise unauthorised access or accidental contact with live electrical equipment. Proper grounding: Connect all welding equipment and associated tools to grounded power sources to reduce the risk of electrical shock. 	2M



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			- Use of residual current devices (RCDs): Install appropriate RCDs on all power supplies to provide additional protection against electrical hazards.	
			- Appropriate personal protective equipment (PPE) unsure workers wear adequate PPE, such as insulated gloves, non-conductive footwear, and the retailed gloves, to reduce the risk of injuries caused by electrical hazards.	
			- Correct equipment installation: Ensure all coponer and attachments, such as regulators, gas cylinders, and hoses, are securely connected a perly installed according to manufacturer guidelines to prevent malfunctions and	
			- Storage and handling of gas winders: Store and handling scylinders in accordance with relevant Australian Standard AS 4 2) to ensure their husage and prevent any accidents.	
			- Training and pervision, ovide gular train and ongoing supervision for all workers involved in the gas metal at selding process, ensure the understand the correct setup procedures and potential hazard associated with a	
			- Safe cocks by use: Conduct thorough pre-use safety checks on all equipment, verifying correct functional and identifying any potential issues that may compromise safety.	
			- Emergincy sponsorian: Develop an emergency response plan detailing appropriate actions in case of an equipment malfunction, electrical hazard, or accident. Ensure all workers are familiar with this plan as known ow to spond effectively.	
			Incide porting system: Establish a clear system for workers to report hazards, accidents, or potential ks related to equipment setup, allowing for timely review and implementation of necessary corrective a ons.	
			- Conduct a comprehensive risk assessment before selecting the welding process, taking into account the types of materials to be welded, their thicknesses, and the specific requirements of the job.	
			- Ensure that all welding personnel are qualified and have up-to-date knowledge on the appropriate welding processes and techniques for the given task, including necessary certification where required.	
			- Consult with manufacturers' guidelines or seek professional advice on the appropriate welding process and equipment settings if uncertain about the most suitable technique for the job at hand.	
3. Welding Process	Incorrect process selection,	2M	- Implement regular training and refresher courses for welders on the correct use and adjustment of welding equipment to ensure their skills and knowledge remain current.	1L
Selection	inappropriate adjustments		- Develop and maintain Standard Operating Procedures (SOPs) for each specific welding process used in the workplace, which outlines the correct settings and adjustments for various task scenarios.	
			- Regularly inspect and maintain welding equipment to ensure it remains in good working order, with settings being reliably consistent during use.	
			- Incorporate a pre-weld checks routine to verify the chosen welding process and equipment settings are suitable for the specific task and materials involved.	
			- Communicate proper job-specific safety procedures and reinforce the importance of following recommended welding processes to all employees.	



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			- Utilise warning signs and labels to indicate the appropriate welding process to be used for specific tasks or material combinations.	
			- Implement a system of peer review or supervision monitor the selection and adjustments made by welders, offering feedback to reinforce best proceed and identify any areas for improvement.	
			- Assign dedicated welding 'experts' within team who can assist colleagues in choosing the appropriate welding process or making adjustments aring their specialised knowledge as needed.	
			- Encourage open communication channels for the most suitable welding process or equipment so ings for the sk.	
			- Monitor improvements in equitate and update company of the compa	
			- Document a relding processes and disconents carried out on each job, to create a performance log that cache study of for each or areas comprovement and used as a reference for future tasks.	
4. Material Cleaning and Preparation	Fumes from chemical cleaners, cuts from sharp materials	2M		1L



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5. Secure Workpiece	Improper positioning workpiece movement causing njury	2M		1L



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6. Personal Protective Equipment (PPE)	Inadequate PPE, damaged PPE	3H		2M
7. Gas Cylinder Handling	Explosion risk, gas leaks, incorrect connections	4A		3H



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8. Pre-weld Inspection	Poor weld joint fit-up, unsuitable welding conditions	2M		1L



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9. Welding Execution	Electric shock, burns, eye damage from arc flash	4A		3H



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10. Post-weld Inspection	Failure to identify defects, missed critical repair opportunities	2M		1L



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11. Slag and Spatter Removal	Flying particles, excessive force causing injury	ЗН		2M



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12. Grinding and Finishing	Noise, flying debris, exposure to heat	ЗН		2M



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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
13. Cool Down Period	Burns from hot equipment, fire risk due to heat	2M		1L



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	7			
14. Cleaning Up	Tripping hazards, a hazardous waste	≥M		1L



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				I
15. Equipment Dismantling and Storage	Manual handling it tries, breaching of safety protocols	2M		1L



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





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 OF 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/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/legislatide

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Codes of Practice NT: https://worksafe.nt.gov.au/f

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

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

Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/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

Occupational Health al. Safety Act

Occupational Health and Infety gulations 2017

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

gulat

les on actice VI atps://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 STATEMENT MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remains a fective of must be reviewed (and revised if necessary) if relevant control measures are revised. The view process should be carried out in consultation with workers (including contractors of the SWMS and their health and safety representatives who represented that work group at the workplace.

When the SWMS has been revised the PCBU mast ensure that 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 rest of the review are advised of the changes in a way that will enable them to implement their duties and the 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.
- 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							

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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.	7	
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 SWMS		
SWMS initial risk (IR) column as well as residual risk (RR) column ppleted.	\boxtimes	
Check control measures added to the SWMS are the most effective selections	\boxtimes	
Responsible person is assigned and listed on the part the important portrol measures.	\boxtimes	
Permit or licenses requirements specified, sur as Hot Work, Electric Work, Work at Heights etc.	\boxtimes	
SWMS identifies plant and equipment to be us	\boxtimes	
Details of inspection checks required for any equipment listed a noted on the SWMS.	\boxtimes	
Describes any mandatory qualifications, experience, a g or skills required to perform the work.	\boxtimes	
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.		
REVIEWED BY	DATE REVIE	WED
SIGNATURE	DATE COMPL	ETED