



Shotcreting Operation	ns   SAFE WORK METHOD	STATEMENT (SWMS)	
TASK	OR ACTIVITY: Shotcreting Oper	rations	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E fil:	
	'		
THIS SAFE WORK METHOD	STATEMENT IS APPROVED 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 the (PC 1) is	required to en that a safe work method s	statement (SWMS) is prepared before
Full Name:			
Signature:	NY	Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	apliance the VMS a well as review	es and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS S /MS M 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 and in accomposition with a gislative requirements to first identify any site hazards, hazards and then to further take steps to either eliminate or continuous each hazard.			
If an incident or a near miss occurs, all work must sto, adately. 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	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	Administrative  Change the work is the fourth most effective method. PPE (Personal Protective Equament), the least effective  Description of Controls: Elimination methods are the most effective and preferrence on the protective of the second most effective method of controlling a hazard. Engineering by isolation is the protective Equament), the least effective									

				PERS		TIVE EQUIPM					
		Select the app	ropriate PPL	abo. auitab	le or 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	Required:										
	Pe	ermit or Licen	ses Requirem	ents			Ma	andatory Qual	ifications 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	Lack of personal protective equipment (PPE), Improper handling of equipment	2M	<ul> <li>Conduct a detailed risk assessment before commencing work to identify specific PPE needs and equipment handling procedures.</li> <li>Provide comprehensive training for all person of proper use and handling of shotcreting equipment.</li> <li>Ensure appropriate PPE such as helmets, glove proggles, to a-visibility clothing, and steel-toed boots are worn by all workers.</li> <li>Display clear signs and the lite to indicate manuatory PPE areas and equipment usage zones.</li> <li>Regularly in sect all PPE or dama for wear and replace any defective items immediately.</li> <li>Establish a reject system or the distriction and maintenance of PPE to ensure consistent compliance.</li> <li>Important ergon or assessments to minimise strain during equipment handling and provide lifting aids where excisary.</li> <li>Conduct tregon or assessments to minimise strain during equipment handling and provide lifting aids where excisary.</li> <li>Conduct tregon or assessments to minimise strain during equipment handling and provide lifting aids where excisary.</li> <li>Conduct tregon or assessments to minimise strain during equipment handling and provide lifting aids where excisary.</li> <li>Conduct tregon or assessments to minimise strain during equipment handling achin use.</li> <li>In this increase, work areas to authorised personnel only to reduce the risk of improper equipment use.</li> <li>Evelop and enforce a buddy system to monitor each other's PPE compliance and correct equipment use.</li> <li>Integrate a standard checklist requirement for pre-operation inspections of all equipment.</li> <li>Schedule regular breaks to prevent fatigue-related mishandling of equipment.</li> <li>Ensure safe storage solutions for equipment when not in use to prevent accidental injuries.</li> <li>Appoint a safety officer tasked with monitoring compliance with PPE use and proper equipment handling throughout the operation.</li> </ul>	1L
2. Transporting materials	Injury due to lifting heavy materials, Slips, trips and falls	2M	<ul> <li>Conduct a manual handling risk assessment before beginning transport activities.</li> <li>Use mechanical aids such as trolleys or forklifts to move heavy materials wherever possible to reduce physical strain.</li> <li>Provide training on proper lifting techniques, including how to bend the knees and keep a straight back while lifting.</li> <li>Ensure all pathways are clear of obstructions and debris to prevent slips, trips, and falls during transportation.</li> <li>Wear appropriate personal protective equipment, including gloves and steel-capped boots, to prevent injury from dropped materials.</li> <li>Implement a buddy system for lifting particularly heavy or awkward items to assist with safe manual handling.</li> </ul>	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
			- Mark and secure loading and unloading areas to clearly define zones for material movement and limit access by unauthorised personnel.	
			- Regularly inspect trolleys, forklifts, and other mean uncal aids to ensure they are in good working condition.	
			- Maintain a clean and organised work area minimise the risk of trips over tools or materials.	
			- Ensure adequate lighting in all areas where a term are being transported to enhance visibility and safety.	
			- Implement scheduled break, or workers involved mater an andling to prevent fatigue-related injuries.	
			- Conduct regularization are arrespections of the shotcrete machine to ensure it is in good working condition.	
			- Ensurall oputors are alined and a petent in operating the shotcrete machine safely.	
			- Use $\frac{1}{2}$ val cult devices (RCDs) for electrical circuits to minimise the risk of electric shock.	
			- Keep exchine who work area dry, especially when handling electrical components.	
			Ensure hat a vables and connectors are in good condition and not damaged or frayed.	
			- leme t a loo ut/tagout system for isolating the equipment during maintenance or repair.	
8. Setting up shotcrete	Machine malfunction, electrical hazar	M	Position shotcrete machine in a stable and level location to prevent tipping or instability.	1L
machine			- tablish an exclusion zone around the machine during operation to protect workers from potential ha, ards.	
			- Use appropriate personal protective equipment (PPE) such as gloves, eye protection, and hearing protection.	
			- Develop and maintain emergency response procedures in case of machine malfunction or electrical hazard.	
			- Clearly label machine controls and switches to avoid confusion and ensure safe operation.	
			- Provide adequate lighting in the work area to reduce the risk of accidents related to machine malfunction and electrical hazards.	
4. Mix preparation Exposure to harmful substances, dus	Exposure to harmful substances, dust	2M		1L
x properation	inhalation	2.11		



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5. Spray operation start-up	Noise pollution, pressure hazards from hose	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
6. Applying Shotcrete	Fumes and dust inhalation, risk of duris in eye	2M		1L



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7. Finishing	Damage to skin from wet cement, dus inhalation			1L
8. Machine Cleaning	Exposure to harsh cleaning chemicals, Slippery surfaces	2M		1L



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9. De-energising and isolating equipment	Electrical hazards, Improper disconnection of equipment	2M		1L



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10. Repair work on Shotcrete machine	Risks associated with use of hand tools Electrical shocks			1L
11. Maintenance	Trapped fingers or limbs, Exposure to hazardous materials	3H		2M



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12. Breakdown procedure	Fire risk, Injury due to built-up pressure release	ЗН		2M



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13. Inspections	Risk of falling when working at height, Cover falling/lifting off unexpectedly	ЗН		2M
14. Emergency Shutdown	Confusion leading to errors, fire risks	ЗН		2M



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15				
15. Completion/Demobilisat ion	Unexpected movement of equipmen Manual handling of heavy loads	3H		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
16. Disposal of materials	Contracting of diseases, Pollution due improper disposal			2M
17. Storage	Trip injuries due to haphazard storage, falling materials from height	3H		2M



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18. Documentation	Loss of documentation, Misinterpretation of Data	2M		1L



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19. Post Operations Assessment	Missed hazards due to fatigue, Inaccurate reporting			2M
20. Debriefing/Evaluation	Miscommunication or misunderstanding of information, Fatigue leading to poor attention	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
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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 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

#### **Northern Territory**

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo\_place-

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 at Safety Act 34

Occupational Health and Infety gulations 2017

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

gulat

des on actice VI autros://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 pleted.		
Check control measures added to the SWMS are the most effective selections		
Responsible person is assigned and listed on the part the important control measures.		
Permit or licenses requirements specified, sur as Hot Work, Electric Work, Work at Heights etc.		
SWMS identifies plant and equipment to be us		
Details of inspection checks required for any equipment listed an inoted on the SWMS.		
Describes any mandatory qualifications, experience, and 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.		
REVIEWED BY	DATE REVIEWE	D
SIGNATURE	DATE COMPLET	ED