



Mechanical Demolition Excavator Attachments and Robotics | SAFE WORK METHOD STATEMENT (SWMS) TASK OR ACTIVITY: Mechanical Demolition Excavator Attachments and Robotics **Business Name:** ABN: SWMS# Business Address: Contact Person: Phone: L ગાં: THIS SAFE WORK METHOD STATEMENT IS APPROVED BY THE PC. VOF THE PROJECT g (PC 1) is required to en that a safe work method statement (SWMS) is prepared before Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or under the proposed work starts. Full Name: Title: Date: Signature: the VMS a well as reviews and modifications of the SWMS. Details of the person(s) responsible for ensuring implementation, monitoring poliance Full Name: Title: Phone: NA 2 OF ALL RELEVANT PERSONNEL WHO HAVE BEEN CONSULTED AND COMMUNICATED TO IN THE ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS S VMS M HAVE THE FOLLOWING COMMUNICATED EVELOPMENT AND APPROVAL OF THIS SWMS Safety meetings or toolbox talks will be sched ed in accord requirements to first identify any site hazards, ocomic nica those hazards and then to further take steps to either eliminate or confee each hazard. If an incident or a near miss occurs, all work must sto. ulately. 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-RISK CONSTRUCTOR	ON WO K BEIN O KRIED 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	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical integration 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 — ov 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 tha 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	RY OR EQUIPMENT NEARBY

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	RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCOBE	ACTION		HEIRARCHY OF CONTROLS		
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	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 befor work starts.		Replace the hazard.		
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolate 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	ring by isolati		et. 'ive, while	rd. Substitution Administrative effective		Administrative Change the work. PPE		

				PERS		TIVE EQUIPM					
		Select the app	ropriate PPL	abo. ~uitab	le or the equip	oment used or	the job task	being perform	ned (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	ARING STION	F' CTIO	RL PIRATORY 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
Pre-start planning and documentation	Inadequate SWMS coverage Unclear exclusion zones Unverified underground services Incompatible plant on site Conflicting work activities Fatigue and time pressure	4A	Review project scope and drawings before ork and identify all areas where mechanical demolition, groundworks, plant and robotics will be use. Consult with principal contractor and relevant of intractors to coordinate sequencing of demolition, low risk groundworks clearing and robotic works. Obtain up-to-date Dial Before fou Dig and service lans or verify services locations with onsite representative before or groun, one entration. Eliminate mechanical devolution in reas where structure stability cannot be confirmed and substitute with hand devolution method. Devologiand to umerous are exclusion, ones for all demolition plant, excavators, hydraulic hammers, sheat unshers, oursers and robots, and mark them on site plans. Prepulse of study cloading assessment where plant will work on suspended slabs or basement structures an confirme fructural capacity with a competent engineer. Assign compliant supervisor with demolition experience to manage plant and robotic operations and very current Hig., Risk Work Licences where required. Hold a start meeting each day to brief workers on SWMS controls, site changes, interaction with her trades and emergency procedures. Sugger high-risk activities to avoid overlapping noisy or vibration-intensive tasks that can affect communication and structural integrity. Set realistic work durations and rest breaks to reduce fatigue, including additional breaks for operators using high vibration tools or controls. Record attendance at pre-starts and toolbox talks and ensure all new workers are inducted into site-specific demolition and robotics controls before starting. DO NOT commence any mechanical demolition or robotic operation until this SWMS is reviewed, approved and communicated to all affected workers.	3Н
Site establishment and access	Uncontrolled public access Vehicle pedestrian interaction Unstable ground conditions Inadequate lighting Unprotected edges and voids Overhead service contact	4A	 Install solid perimeter fencing, lockable gates and clear signage to prevent unauthorised public access to demolition and robotics areas Establish dedicated plant access routes for excavators, loaders, telehandlers and support vehicles and physically separate them from pedestrian walkways using barriers Inspect ground conditions for soft spots, fill, voids and underground services and confirm bearing capacity before moving heavy plant or robots into position Use steel plates or engineered mats to bridge weak ground or trenches where plant and robotic rigs must cross Identify overhead powerlines, services and structures and establish approach distances in accordance with state regulator guidelines 	2M



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
			Install physical edge protection, guardrails or concrete barriers at drop-offs, pits, shafts and basement entries where plant or robots will operate near edges	
			• Provide temporary task lighting compliant with A°S 1680 in low light areas, tunnels, basements and internal demolition zones	
			• Set up clearly marked emergency egress — ites for wor — is and plant, ensuring they are kept free of debris and parked equipment	
			• Install wheel stops or physical barriers to previous plant from tradelling into pedestrian zones, public roads or adjacent properties	
			• DO NOT allow public or non-e antial personnel to active demolition or robotic zones under any circumstances	
			Engage lice, d electric is to isola lock out electrical circuits within the demolition area and issue ation office pefore starting mechanical works	
			• Veril e, trical is ation with approved test instruments and tag isolated circuits in accordance with AS/NZ 30	
	Live electrical services Live gas lines Pressurised water pipes Structural collapse Falling debris frc unstable elements	4A	• Arrang for g fitters d plumbers to disconnect, cap and clearly tag gas and water services feeding demotion z	
			• Identities load-bearing walls, columns, beams and bracing on structural drawings and verify onsite with competent engineer before using heavy plant or robotics nearby	
Service isolation and structural verification			• quence demolition to maintain structural stability, removing non-load-bearing and lightweight elements firs, while retaining key supports as long as practicable	2M
			Use temporary propping or shoring designed by an engineer when removing structural elements or operating heavy machinery on or near compromised structures	
			Establish no-go zones beneath areas where overhead demolition will occur and cordon off floors below with physical barriers and warning signage	
			Conduct frequent structural inspections during demolition and immediately stop work if any unexpected cracking, deflection, movement or unusual noises are detected	
			DO NOT cut, hammer or crop any structural member until authority to proceed is given in writing by the structural engineer or competent person	
	Hidden underground services			
	Contact with buried contaminants			
Low risk groundworks and clearing	Flying debris from vegetation	3H		1L
	Manual handling strain Slips trips and falls on uneven ground			
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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
Plant delivery and setup	Unplanned vehicle movement Loading ramp collar Crushing between plant and structures Falling from plant winc Incorrect tie down of attachments	3H		2M
Attachment inspection and changeover	Attachment detachment during operation Hydraulic hose failure Pinch points at couplers Stored hydraulic pressure	4A		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE • Oil spray injection injury	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL
Mechanical hammering operations	Flying concrete fragments Excessive noise exposurc Hand arm vibration Structural overloading Dust and silica generation	4A		2M

Review Date:



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
Hydraulic cropper and shear cutting	Uncontrolled concrete breakout Rebar whip and spring-back Blade or jaw failure Hydraulic line rupture Entrapment between moving jaws	4A		2M
Pulveriser and polygrinder operation	Flying rubble and dust Entanglement in rotating parts Noise and vibration exposure Overloading of attachment Loss of load control	4A		2M



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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
Robotic demolition setup and use	Loss of remote control signal Unintended robot movement Toppling of robot on weak slabs Cable and hose trip hazards Electromagnetic interf	4A		2M
Demolition plant operations and traffic	Plant collision with workers Reversing plant blind spots Uncontrolled slewing loads Rollovers on slopes Contact with adjacent structures	4A		2M



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
Dust, noise and vibration management	Respirable silica sposure Noise induced he sing! Nuisance dust to neighbours Excess structural vibration Reduced communication clarity	ЗН		1L
Falling debris and material handling	Falling masonry and concrete Struck by flying fragments	4A		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE • Overloaded skips or trucks • Manual handling overexertion • Sharp edges on scrap steel	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
Emergency response and shutdown	Delayed emergency evacuation Uncontrolled plant after income Fire from fuel or hydraulics Restricted access for responders First aid not immediately available	3Н		1 L
				1



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
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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/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 2025

Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati

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

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

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/le lation

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

Or pational Health a. Safety Act J4

Occ ational Health and afety gulations 2017

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

tes of actice V/ 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/modelcodes-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 Saf 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

SAFE WORK N. THE STATEMENT MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remains fective of must be reviewed (and revised if necessary) if relevant control measures are rovised. The view respectively should be carried out in consultation with workers (including contractors as a sub-intractors 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 must 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 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.
- 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.	k	
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 SWMS		
SWMS initial risk (IR) column as well as residual risk (RR) colum mpleted.	\boxtimes	
Check control measures added to the SWMS are the most effective selections.		
Responsible person is assigned and listed on the part of the important of	\boxtimes	
Permit or licenses requirements specified, sur as Hot Work, Electric Work, Work at Heights etc.	\boxtimes	
SWMS identifies plant and equipment to be use	\boxtimes	
Details of inspection checks required for any equipment listed an onthe SWMS.	\boxtimes	
Describes any mandatory qualifications, experience, use 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.	\boxtimes	
Identifies any hazardous substances used with specific control measures in line with any SDS.	\boxtimes	
REVIEWED BY	DATE REVIEWED	
SIGNATURE	DATE COMPLETED	