



Deploying Electromagn	nets   SAFE WORK METHO	D STATEMENT (SWMS)	
TASK	OR ACTIVITY: Deploying Electron	magnets	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E fil:	
THIS SAFE WORK METHOD	STATEMENT IS APPRO' 'D BY'	THE PC. OF THE ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduct the proposed work starts.	cting a business or undo	required to en the 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 a	apliance the VMS a well as review	s and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS SIMS MANY HAVE THE FOLLOWING COMMUNICATED	NA. 2 OF ALL RELEVANT PERSONN EVELOPMENT AND APPROVAL OF	EL WHO HAVE BEEN CONSULTED AND C THIS SWMS	OMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched and in account with gislative requirements to first identify any site hazards, and then to further take steps to either eliminate or continuate the hazard.			
If an incident or a near miss occurs, all work must sto, quately. 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	Administrative  Change the work.  Stes on Hierarchy of Controls: Elimination methods are the most effective and preferrence on controls by changing the work is the fourth most effective method. PPE (Personal Protective Eq. ment) The least effective									

				PERS		TIVE EQUIPM					
		Select the app	ropriate PPŁ	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		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	Electrical faults, Incorrect handling of equipment	3H	<ul> <li>Conduct a thorough risk assessment before carting work to identify potential hazards.</li> <li>Ensure all personnel are trained and compount in boung electromagnets and related equipment.</li> <li>Use insulated tools and wear appropriate person protective equipment, including rubber gloves and boots.</li> <li>Regularly inspect all cables are connections for word rear, replacing any damaged components immediately.</li> <li>Implement to cout/tagout peedure to ensure equipment is de-energised during maintenance or when not in use.</li> <li>Ensured as a feet of displayed around the work area to alert others of the operation involving electronic nets.</li> <li>Establish a afety pometer around the deployment area to restrict access to authorised personnel only. Utilise to operating teamiques and equipment to handle heavy components, avoiding manual lifting to reposible.</li> <li>Assign to botter to assist in guiding the deployment, ensuring communication is maintained at all times. Perform regular testing of all electrical systems before energising the electromagnets to prevent faults.</li> <li>Develop emergency response procedures specific to electrical hazards associated with the use of electromagnets.</li> <li>Keep the work area dry and free from clutter to minimise the risk of slips, trips, and electrical hazards.</li> <li>Disconnect power supply immediately if any unusual noise, spark, or overheating is observed, and conduct an inspection before resuming operations.</li> </ul>	2M
2. Assessment of environment	Faulty wiring, Nearby water sources	3Н	<ul> <li>Conduct regular inspections of wiring for signs of wear, damage, or corrosion prior to the operation.</li> <li>Engage a qualified electrician to verify the safety and compliance of all electrical connections and components.</li> <li>Ensure proper earthing/grounding of the equipment before commencing work.</li> <li>Use waterproof enclosures and connector systems for added protection in wet or humid environments.</li> <li>Implement the use of Residual Current Devices (RCDs) to detect and shut off faults quickly.</li> <li>Clearly mark areas with potential electric hazards to keep unauthorised personnel away from electromagnets and related wiring.</li> <li>Install barriers or distance markers to maintain a safe distance from water sources like pipes, tanks, or natural bodies of water.</li> <li>Train all team members on the risks associated with faulty wiring and nearby water sources during induction and regular safety briefings.</li> </ul>	2M



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			- Equip staff with personal protective equipment (PPE) such as insulated gloves and boots when working near potentially live circuits.	
			- Schedule work around weather conditions to avoid reploying equipment during rain or high humidity which can increase risk.	
			- Develop an emergency response plan including steps to ke in case of electric shock or water intrusion incidents.	
			- Regularly review and update safety measures place to address new findings or changes in the work environment.	
			- Conduct a thorough tion to II equipment to ensure it is in proper working condition before commencement setup.	
			- Ensure all entrical comments are any grounded according to Australian safety standards to previous lectric traze.	
			- Implication regulation and animal a	
			- Use on riqual ed electricans to set up and inspect the grounding systems as well as other electrical mpone its.	
			- Instance dual current devices (RCDs) to add an extra layer of protection against electrical faults.	
3. Set-up of equipment	Improper grounding, Malfunctioning safety features		Provide comprehensive training to all personnel involved in the setup process on identifying and in crating potential hazards.	2M
			Clearly label all switches, circuit breakers, and emergency stops to ensure they are easily identifiable in case of malfunction.	
			- Use lockout/tagout procedures to ensure that machinery cannot be accidentally started during maintenance or repair activities.	
			- Establish a communication protocol for reporting faults or malfunctions immediately to supervisors.	
			- Ensure all staff are equipped with appropriate personal protective equipment (PPE) such as insulated gloves and safety goggles.	
			- Develop and communicate an emergency response plan that details steps to take in the event of a malfunction or accident.	
4. Initial system check	Defective components, Unexpected start-ups	3H		2M
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5. Deployment of electromagnets	Physical contact with energised parts, Electrocution	4A		3H



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6. Operational testing	Overheating of electromagnets, Equipment failure e to st	4A		3H
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7. Maintaining operation	Frequent exposure to magnetic fields, Inadequate maintenance procedures	2M		1L
8. System shutdown	Remaining electrical energy, Faulty shutdown process	3H		2M



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9. Dismantling of setup	Exposure to residual magnetism, mishandling	ЗН		2M



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10. Final checks	Missed hazards during previous checks, Post-activity faults	2M		1L
11. Clean up and storage	Injury from sharp objects, improper storage	2M		1L



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12. Inspect and maintain tools/equipment	defective equipment, lack of regular inspection	2M		1L



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13. Transporting equipment and materials	Risks involved in lifting heavy objects, risks involved in transportation	2M		1L
14. Supervise workers and subcontractor	Poor understanding of worksite standards, non-compliance with safety regulations	ЗН		2M



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15. Site striking and removal of plant and machinery	Risk of injuries or damage during removal, lack of inspection striking	2M		1L
machinery	striking			
				1
				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
				•
16. Review and improvement of safety measures	Inadequate feedback safety standards			2M
17. Training and education	Poor understanding of worksite safety, inadequate training resources	3H		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
JOB STEP  SPECIFIC WORK STEPS	POTENTIAL HAZARDS  HAZARDS THAT MAY ARISE	IR INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RR RESIDUAL RISK
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18. Emergency procedures	No clear emergency response plan, inadequate facility layout for emergency exits	4A		ЗН



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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19. Accident reporting and investigation	Failure to report as idents, in te investigation proces	ЗН		2M
20. Regular equipment checks	Overlooked equipment faults, inadequate maintenance procedures	2M		1L



SPECIFIC WORK STEPS  HAZARDS THAT MAY ARISE  INITIAL RISK  SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS  RESIDENT OF THE RISKS  RESIDE	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

 $\textbf{Legislation QLD:} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}$ 

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/legislati

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/le

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-

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tes of actice VIC 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): <a href="https://www.safeworkaustralia.gov.au/law-and-regulation">https://www.safeworkaustralia.gov.au/law-and-regulation</a> Model Codes of Practice: <a href="https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice">https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice</a>

#### **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