



Lightning Risks During Outdoor	Installations   SAFE WOR	K METHOD STATEMENT (SV	VMS)
TASK OR ACTIV	ITY: Lightning Risks During Out	door Installations	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E il:	
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 undo	required to en that a safe work method	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, comparing those 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, 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.			





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



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.  Solds on Hierarchy of Controls: Elimination methods are the most effective and preferrence on controls to the second most effective method of controlling a hazard. Engineering by isolation is the fit post engineering by changing the work is the fourth most effective method. PPE (Personal Protective Eq. ment) to be least effective									

				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	Equipment malfunction, Inadequate personal protective equipment (PPE)	3H	<ul> <li>Conduct a thorough risk assessment focus from the possibility of equipment malfunction and identify areas particularly susceptible to lightning stores.</li> <li>Ensure all equipment used during outdoor into the use is regularly inspected and maintained to prevent malfunctions that could be exacerbated by weath a conditions.</li> <li>Verify that all employees are an uipped with appropriate the propriate form including rubber-soled boots, to minimize electrical risks during extential his trying events.</li> <li>Provide composensive trobing troll staff on a registing early signs of thunderstorms and procedures to follow whit rightning pois a haze.</li> <li>Estatish clear common attorn channe and protocols for reporting unsafe conditions immediately, includes impendent author channes and protocols for reporting unsafe conditions immediately, includes impendent author channes and protocols for reporting unsafe conditions immediately, includes impendent author channes and protocols for reporting unsafe conditions immediately, includes impendent authority and evidence on essential electronic and electrical equipment to safeguard against voltage pike from lightning.</li> <li>Schedul troute or installations during times of lower thunderstorm activity based on weather forecasts to microsise apposity to lightning.</li> <li>Create or emergency response plan specifically for lightning occurrences, detailing evacuation routes of shelter locations.</li> <li>Englip installation vehicles and temporary workstations with lightning protection systems where feasible.</li> <li>Use non-conductive tools and materials wherever possible to reduce the risk associated with conducting activities in vulnerable conditions.</li> <li>Regularly conduct drills to ensure readiness and effectiveness of both preventive measures and emergency actions related to lightning incidents.</li> </ul>	2M
2. Weather Assessment	Incorrect weather prediction, Neglect to monitor updates on weather condition	3H	<ul> <li>Regularly check reliable weather forecasting websites and apps for the latest updates before starting any outdoor installation.</li> <li>Designate a specific team member to monitor weather conditions continuously throughout the day.</li> <li>Implement and maintain an emergency communication plan that includes weather alerts for unexpected changes in conditions.</li> <li>Schedule outdoor installations during periods with the lowest predicted risk of thunderstorms, often early in the day or when forecasts show clear skies.</li> <li>Establish a protocol for immediate cessation of work upon receiving indications of approaching storms or lightning activity.</li> <li>Utilize commercial weather services that offer real-time lightning detection systems and alert services.</li> <li>Educate all team members about recognising signs of changing weather conditions, such as darkening skies or increasing wind speeds.</li> </ul>	2M



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			- Equip the site with portable weather monitoring devices that provide onsite updates and data on current conditions.	
			- Develop partnerships with local meteorological express who can provide more precise predictions for your specific location.	
			- Incorporate weather assessment training or regular solvy meetings and include scenario-based drills.	
			- Keep a log of weather assessments conduct or to and during outdoor activities to track patterns and improve future planning.	
			- Have a designated safe she harea identified an eady workers can evacuate quickly if severe weather threatens.	
			- Encourage team to use a bile a dications with push notifications for sudden weather changes to support quiet ecision-makes.	
			- Cor a pre-, to uon site assessment to identify potential hazard areas and mark them on a map.	
			- Ensura erson are trained in recognising signs of an impending lightning storm and understand evacua on a cedure	
			Install & pund lightning rods in accordance with Australian standards to protect equipment and	
			Positive parriers around the site to redirect lightning strikes away from work areas.	
			- arform regular inspections of grounding systems to verify their integrity and functionality.	
			- Develop a comprehensive emergency response plan, including evacuation routes and safe assembly points.	
			- Clearly demarcate safety zones where non-essential personnel should not enter during the installation.	
. Installation Site etup	Lack of first aid kit, position g of lightning protectors, Defective grounding system	4A	- Establish a reliable communication system for alerting workers about weather changes or emergency situations.	3H
	grounding system		- Keep a well-stocked first aid kit at an easily accessible location on site; ensure it includes supplies for electrical burns and shock.	
			- Assign a safety officer to monitor weather forecasts regularly and make decisions on halting work if there is a risk of thunderstorms.	
			- Equip workers with non-conductive PPE, such as rubber-soled boots and gloves, to reduce risks during potential electrical storms.	
			- Regularly test and maintain all electrical tools and lighting protection equipment to ensure no defects are present.	
			- Instruct employees on the proper method for shutting down and securing equipment in case of sudden adverse weather.	
			- Ensure all temporary structures, such as canopies or scaffolding, are properly grounded and secured against wind.	



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4. Equipment Check	Faulty equipment, Insufficient regular equipment checks	2M		1L
5. Protective Measures Application	Absence of emergency procedures, Non adherence to safety guidelines	ЗН		I 1L



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	G			
6. Outdoor Installation Process	Unshielded electrical devices, Exposed cables, Absence of insulation	4A		2M
				I



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7. Handling of Tools and equipment	Inappropriate use of equipment, Not using insulated tools			<b>1</b> L
8. Team Communication	Lack of effective communication, No designated person for monitoring weather changes	2M		1L



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9. Regular safety check	Lack of regular safety autonompetent safety officer	ЗН		2M



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				_
				•
				1
Emergency Response Procedure mplementation	Ineffectual emerg sy drills, Unqualified first aider on site	3H		1L
mplementation	first aider on site			I "
				1



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11. Equipment Dismantling	Unsafe dismantling processes, Non- observance of safe distance from high voltage areas during storm	ЗН		2M
12. Debriefing and Review	Inaccurate reporting of safety issues, No regular feedback mechanism	2M		1L



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13. Weather Monitoring	Lack of consistent absorbtion no			
Post Installation	Lack of consistent observation poinstallation, Neglected ma.	2M		1L
				1



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14. Documentation & Record Keeping	Disorganised record keeping, Misplacement of vital documents	2M		I 1L
15. Follow up Inspections	Inadequate follow-up inspections, Absence of a laid down inspection routine	ЗН		2M



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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: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice</a> Legislation ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations">https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</a>

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/

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

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/le\_lation

Codes of Practice for SA: <a href="https://www.safework.sa.gov.au/wor">https://www.safework.sa.gov.au/wor</a> 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

 $Legislation \ for \ TAS: \ \underline{https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations}$ 

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.csafe.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: <a href="https://www.commerce.wa.gov.au/worksafe/legislation">https://www.commerce.wa.gov.au/worksafe/legislation</a> Codes of Practice WA: <a href="https://www.commerce.wa.gov.au/worksafe/codes-practice">https://www.commerce.wa.gov.au/worksafe/codes-practice</a>

#### 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.
- 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.	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 selective.		
Responsible person is assigned and listed on the part the important of 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 at noted on the SWMS.		
Describes any mandatory qualifications, experience, 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 COMPLETE	ED ED