

Bunsen Burner	SAFE WORK METHOD STA	TEMENT (SWMS)	
T.	ASK OR ACTIVITY: Bunsen Burn	er	
Business Name: [Company Name]		ABN: [ABN]	SWMS#
Business Address: [Company Address]			
Contact Person:	Phone: [Phone]	E fil:	
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE PL OF THE PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduct the proposed work starts.	eting a business or undertaking (N 3U) is	required to ure at a safe work method st	tatement (SWMS) is prepared before
Full Name:			
Signature:		Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring a	ompliance of the SWMS well as review	s and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS WMS. ST HAVE THE FOLLOWING COMMUNICATED	N. 1E AND DATED SIGNATURE OF A CO. MUNICATED TO IN THE DEVELO	LL RELEVANT PERSONNEL WHO HAVE BE PMENT AND APPROVAL OF THIS SWMS	EEN CONSULTED AND
Safety meetings or toolbox talks will be sched ed in accordance with egislative requirements to first identify any site hazards, conditions those hazards and then to further take steps to either the late or conditions are also hazard.	NAME	SIGNATURE	DATE
If an incident or a near miss occurs, all work must steam ately. 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.			



		CLI	ENT OR PRINCIPAL	CONTRACTOR D	ETAILS				
Client:						SCOPE OF WORKS			
Project Name:					Provide a detailed description of the specific work being carried out (otherwise				
Project Address:					known as cope of works).				
Project Manager:									
Contact Phone:									
Project Manager Sig	nature:								
Date SWMS supplie	d to Project Manager:								
		ANY HIGH-	RISK CON PUCT	N' JRK BEING	CARRIED OUT				
☐ involves a risk of a pe	erson falling more than 2 m	neters.		is carried out on or near pressurised gas mains or piping.					
is carried out on a tel	ecommunication tower.		M + M	is carried out on or near chemical, fuel or refrigerant lines.					
☐ involves demolition o	f an element of a structure	that is load-be n.		is carried out on or near energised electrical installations or services.					
☐ involves demolition o	f an element related to the	physical integrit of a str	3.	is carried out in an area that may have a contaminated or flammable atmosphere.					
☐ involves, or is likely to	o involve, disturbing a	tos.		involves tilt-up or precast concrete.					
involves structural alt	eration or repair that re	upp to p	prevent collapse.	is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor.					
is carried out in or ne	ar a confined space.			is carried out in a	an area of a workplace where t	here is any movement of p	owered mobile plant.		
is carried out in/near	a shaft or trench deeper th	nan 1.5m or tunnel involvin	g use of explosives.	is carried out in a	areas with artificial extremes of	temperature.			
is carried out in or ne	ar water or other liquid tha	t involves a risk of drowning	ng.	☐ involves diving w	vork.				
		ANY HI	IGH-RISK MACHINER	RY OR EQUIPMEN	IT NEARBY				
Forklift	☐ Crane/s	☐ Hoist/s	☐ Excavator	☐ Backhoe/Loader	☐ Boom Lift	☐ EWP	☐ Genie Lift		
☐ Trencher	☐ Drilling Rig	☐ Trucks	Formwork	☐ Bobcat	☐ Flammable Gas	☐ Fuel	☐ Dozer		
☐ High Voltage	☐ Mulcher	☐ Tilt-up Panels	Roller	☐ Scissor Lift	☐ Tractor	Other -			





### PERL NAL TECTIVE EQUIPMENT (PPE)

FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	HEARING PPOTECTION	PROTE	SPIRATORY P STECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
			A								

Select me appropriate PPE above suitable for the equipment used or the job task being performed (if applicable).

**Note:** A SWMS must be reviewed regularly to make sure it remains effective. A SWMS must be reviewed (and revised if necessary) if relevant control measures are revised. The review process should be carried out in consultation with workers (including contractors and subcontractors) who may be affected by the operation of the SWMS and their health and safety representatives who represented that work group at the workplace.

When a SWMS has been revised, the person conducting a business or undertaking must ensure all:

- 1. persons involved in the work are advised that a revision has been made and how they can access the revised SWMS;
- 2. persons who will need to change a work procedure or system as a result of the review are advised of the changes in a way that will enable them to implement their duties consistently with the revised SWMS: and.
- 3. workers that will be involved in the work are provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK	NAME OF PERSON
1. Preparation	Chemical spill, inhalation of harmful fumes	ЗН	Proper Storage and Handling: Make sure that all chemicals used in the experiment are properly stored and handled. Store chemicals in bill-ventilated areas, away from direct sunlight, heat sources, and incompatible stockances.  Personal Protective Equipment (PPE): Proceed appropriate PPE, such as lab coats, chemical-resistant gloves, and safety goggins to prote of orkers from chemical spills and splashes while handling chemicals.  Safe Work Practices: Train, employees on how usafely handle hemicals and follow established procedures when using a Bunsa burner on should include guidelines on proper heating te briques and avoiding the changes in temperature.  Adequate Ventorion: En ore that he workspack has sufficient ventilation to prevent the brough of harm of fumes. This man avoive using a fume hood, installing an exhaust factor simply reaning win our and doors for proper airflow.  Chemical Spill has the spill kits accessible and within easy reach to contain and clean the vaccitor all chemical spills immediately. These should be tailored to meet the spilling and spilli	2M	
2. Bunsen Burner setup	Burns from flame, incorrect installation	3H	- Proper training: Ensure all workers operating the Bunsen burner have undergone proper training to understand the safe use and setup of the equipment.	1L	



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			- Pre-use inspection: Inspect the Bunsen burner, hose, and gas supply for any signs of damage, wear or incorrect installation before every use.		
			- Correct installation: Follow the manufacturer's guidantees for setting up the Bunsen burner, ensuring all parts are correctly assemble and secure.		
			- Stable work surface: Set up the Bunsen by ter on a flat lable, and heat-resistant surface to prevent accidental tipping or slidin		
			- Appropriate protective gear: Make sure worke, andling the Brosen burner wear heat-resistant gloves, long stoves, closed-toe for pear, and the ety goggles to protect against burns and splants.		
			- No loose clothing assessment that we kers don't wear loose clothing, dangling accessories, or leve unset led has hat could leve into contact with the flame.		
			- Clear works, e: Keep tharea aro Bunsen burner clear of flammable mater clutte and as to minimistare hazards.		
			- Safe a ipment ave an appropriate fire extinguisher and first-aid kit nearby in case of emplency.		
			- Correct lights procedure: Follow the recommended lighting procedure (using a iker of aper) minimise the risk of burns from the flame.		
	•		- Property intilation: Ensure adequate ventilation to avoid the buildup of fumes or gas the encured space.		
			- pervision: Monitor inexperienced workers closely while they set up and use the Bunsen burner to ensure correct procedures are being followed.		
			- Gas shut-off: Know how to operate the gas shut-off valve in case the flame needs to be extinguished quickly.		
			- Never leave unattended: Don't leave the Bunsen burner unattended while in operation to prevent accidents.		
			- End-of-use checks: Upon finishing using the Bunsen burner, ensure it's correctly and fully turned off, cool down the workspace for a safe handling and storage.		
			- Proper training: Ensure all personnel involved in lighting the Bunsen burner have received proper training and are familiar with the equipment's safe operation procedures.		
3. Lighting the flame	Explosion, skin burns	4A	- Correct fuel: Verify that the gas source is non-flammable, such as methane or natural gas, and not an inappropriate or explosive fuel like propane or hydrogen.	2M	
			- Inspect equipment: Regularly examine the Bunsen burner, hoses, and connections for signs of wear or damage, and replace any faulty components promptly.		
			- Secure connections: Double-check that all connections between the Bunsen burner and the gas source are tightened and properly fitted to prevent gas leaks.		



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			- Proper ventilation: Make sure the working area has adequate ventilation to maintain fresh airflow, dissipate heat build-up, and avoid the accumulation of toxic or flammable fumes.		
			- Use safety equipment: Provide appropriate provinal protective equipment, including heat-resistant gloves or tongs, safety glasses, and lab coats, to protect against burns and other hazards.		
			- Clear workspace: Keep the surrounding area combustible materials to minimise fire risks.		
			- Light cautiously: When ignitive the burner, use a sea kern a long-straw lighter to keep hands at a safe and see fix the flame.		
			- Gradual ignity Slowly on the valve to strol the flow rate, avoiding abrupt adjustments to could lear an experior excessive flame height.		
			- More a flame, way a sually inspect are flame during operation, ensuring it remains table an actuardiled.		
			- Fire earling sher across: Place a suitable fire extinguisher nearby and ensure it is easily a cess to and exertional.		
			Supervion: No atain constant supervision while the burner is in use, and never leading it up thended.		
			Emerg procedures: Establish and communicate a clear set of emergency delines, including steps to shut off the gas supply, use fire extinguishers, and coulct emergency services if necessary.		
			Shutdown process: After use, ensure the flame is extinguished entirely, and turn off the gas supply at the source. Allow the Bunsen burner to cool down before handling or moving it to avoid burn injuries.		
4. Heating materials	Unsafe handling, overheating, flammable materials igniting	3H		1L	



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5. Adjusting flame	Uncontrolled flame, thermal burns	ЗН		2M	



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6. Conducting experiment	Incorrect procedure, harmful reactions	ЗН		1L	



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7. Monitoring experiment	Failure to detect hazardous conditions, improper supervision	2M		1L	



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8. Shutting off flame	Inadequate extinguishing, burns, gas leaks	3H		2M	



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9. Cooling down process	Thermal burns, equipment damage	2M		1L	



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10. Cleaning up	Spills, chemical exposure, broken glassware	3Н		1L	



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11. Storage of chemicals and Bunsen Burner	Improper storage, mislabeling, fire hazards	2M		1L	



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12. Emergency procedures	Ineffective measures, lack of training or knowledge	4A		2M	



SPECIFIC WORK STEPS HAZARDS THAT MAY ARISE INITIAL RISK SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESIDUAL RISK NAME OF PERSONAL RISK.	JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
	SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK	NAME OF PERSON



#### **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/legislati

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of ractice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractice NSW

#### **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/5

#### 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/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 affety gulations 2017

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

<u>julai.</u>

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: <a href="https://www.commerce.wa.gov.au/worksafe/legislation">https://www.commerce.wa.gov.au/worksafe/legislation</a>

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	Pos	sition	Signature	Date	Time	Sup	pervisor
				Date:			
				l te:			
			AV	Date:			
				Date:			
				Date:			
		Date:					
SAF WO A STHED STATEMENT MONITORING AND REVIEW							
The SWMS must be reviewed revised if necessary) if relevant consultation with workers (inclu of the SWMS and their health a workplace.  When the SWMS has been revadvised that a revision has been who will need to change a work a way that will enable them to in will be involved in the work must them to understand and implements.	control measurable ding contractors and sub- und safety representatives issed the PCBU must ensurable made and how they can reprocedure or system as implement their duties cor ist be provided with the rel	contract s) who may be at s who re esented that work are that all persons involved a access the revised SWMS a result of the review are a sistently with the revised S	should be carried out in ffected by the operation k group at the  d with the work are S, including all persons dvised of the changes in SWMS. All workers that	effective in reducing the person responsible for remploy a multi-faceted 1. Spot Checks 2. Consultation 3. Internal audit An approach of continut followed up by immedia	onitored regularly for the erisk of incidents, keeping monitoring the effectivenes approach which includes but with workers, contractors as on a continual basis.  Ous improvement, promptly the corrective action and contently developing ever-improvements.	the workplace safe for a sof the Safe Work Met ut is not limited to:  and sub-contractors.  recording inconsistence insultation with all relevants.	all personnel. The hod Statement should statement should size or deficiencies, ant personnel ensures
REVIEW NUMBER	<u> </u>	□ 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	TO BE DONE	COMMENTS
The company details have been entered, including the project name and address.			
Names and signatures of all relevant personnel consulted during the development of the SWMS.		P P	
Name, signature, position and date signed of the person approving the SWMS.			
Specific personnel and qualifications, experience is noted in the SWMS.	P		
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 SWh			
SWMS initial risk (IR) column as well as residual risk (RR) columns completed.			
Check control measures added to the SWMS are the most effecting so tions.			
Responsible person is assigned and listed on the SWMS for the imperent of continue assures.			
Permit requirements specified, such as Hot Work, Veralt Heights etc.			
SWMS identifies plant and equipment to be u d.			
Details of inspection checks required for any equipment listed are noted on the SWMS.			
Describes any mandatory qualifications, experience raining skills required to perform the work.			
Applicable personal protective equipment is selected on the SWMS.			
Lists any required permits or licenses.			
Reflects and documents any legislative references and/or Australian Standards.			
dentifies any hazardous substances used with specific control measures in line with any SDS.			
REVIEWED BY	DATE R	EVIEWED	
SIGNATURE	DATE CO	MPLETED	