



Nitrogen Gas Rig for Aircraft Maintenance | SAFE WORK METHOD STATEMENT (SWMS) TASK OR ACTIVITY: Nitrogen Gas Rig for Aircraft Maintenance **Business Name:** ABN: SWMS# Business Address: Contact Person: Phone: THIS SAFE WORK METHOD STATEMENT IS APPROVED BY THE PC. YOF THE PROJECT (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: Details of the person(s) responsible for ensuring implementation, monitoring pliance VMS arrivell as reviews and modifications of the SWMS. Full Name: Title: Phone: ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS STIMS IN NA 2 OF ALL RELEVANT PERSONNEL WHO HAVE BEEN CONSULTED AND COMMUNICATED TO IN THE HAVE THE FOLLOWING COMMUNICATED EVELOPMENT AND APPROVAL OF THIS SWMS Safety meetings or toolbox talks will be sched and in according with gislative requirements to first identify any site hazards. nica those hazards and then to further take steps to either eliminate or conf each hazard. If an incident or a near miss occurs, all work must ste alately. 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	HEIRARCHY 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 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	ering by isolati	on is the in ost e	en 'ive, while	rd. Substitution Administrative effective	Administrative Change the work. PPE			

	PERS_VAL TECTIVE EQUIPMENT (PPE)										
		Select the app	propriate PPL	abo√ ≃uitab	ic 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	R PIRATORY 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	Inhalation of nitrogen gas, Tripping over equipment	2M	 Proper training: Ensure all workers involve to the nitrogen gas rig operation are adequately trained and briefed about the hazards, safety protocols of demerger or procedures. Identify hazardous areas: Clearly mark areas as a controgen gas is being used or stored to alert workers of potential hazards and maintain safe distances of equipment. Personal Protective Equipment (PPE): Make sure to the same wearing appropriate PPE, such as safety goggles, gloves, and contracts then handling nitrogous gas cylinders or working within the vicinity. Equipment instruction: Recolarly to seet equipment, hoses, connections, and valves for any signs of wear, damage or leaks. So adule recolarly and the securety in a well-ventilated area away from heat so in the first or ards, or areas with high foot traffic. Utilise proper cylinder racks or restraints to preven accounts. Signag and contelling: tabel all nitrogen gas cylinders clearly according to regulatory requirements and contine of dispositions are sufficiently as a content of the gas and tripping hazards. However processes to emergency exits. To ble and hose management: Use cable/hose organizers and covers to secure and route hoses neatly, reducing the risk of tripping over equipment. Ventilation: Provide adequate ventilation in the working area to reduce the risk of nitrogen gas buildup and the potential for asphyxiation. Emergency plan: Develop and communicate an emergency response plan that includes procedures for first aid, evacuation, and reporting incidents involving nitrogen gas exposure or other workplace accidents. Leak detection: Install gas detectors or alarms close to areas with stored nitrogen gas cylinders and the gas rig to provide early warning of any leaks. Supervision: Ensure that there's constant supervision of workers handling nitrogen gas or working in the hazardous area to promptly identify and address any unsafe conditions or behaviours. 	1L
2. Inspection	Pressurised gas leaks, Eye injury from debris	ЗН	 Regular equipment inspection: Ensure that all components of the nitrogen gas rig, such as hoses and connections, are checked for signs of wear, damage, or leaks before each use. Leak detection procedures: Implement standard operating procedures for detecting and locating pressurised gas leaks using specialised equipment, like gas leak detectors, to prevent accidental release. Proper personal protective equipment (PPE): All personnel involved in the inspection process should wear appropriate PPE, including safety goggles to protect against eye injury from debris, gloves, and long-sleeved shirts. 	2M



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			- Training and awareness: Conduct regular training and safety briefings for personnel involved in aircraft maintenance, emphasising the importance of following established SWMS requirements and best practices for handling nitrogen gas rigs.	
			- Use of safety guards and barriers: Install safety guards or barriers around the work area to minimise the risk of injury due to accidental releases of a surised gas or flying debris during inspection.	
			- Emergency shut-off mechanisms: Equip the trooger us rig with automatic or manually operated emergency shut-off valves for immediate isolated as of a leak or other issue.	
			- Periodic maintenance and vicing: Schedule is tine maintenance and servicing for the nitrogen gas rig to ensure it remains in good witing condition, identified addressing any potential issues early.	
			- Secure storage:	
			- Correct handle programes: Train per onnel on correct techniques for maneuvering pressurised gas cylind minin and risk of injury and leaks during inspection procedures.	
			- Clear light e and celing: Clearly mark the work area, equipment, and hazardous materials with appropriate services and labels, informing personnel of any potential dangers and steps to address them.	
			Access estrictures: Limit access to the work site to only those individuals who have been trained and authorise to perform tasks involving the nitrogen gas rig.	
			Incident porting and response: Develop a swift incident reporting and response system to ensure that issues with pressurised gas leaks or eye injuries are addressed as soon as possible.	
			- Continuous improvement and feedback loop: Regularly review and update SWMS procedures based on industry best practices, lessons learned from incidents, and input from workers to ensure the ongoing effectiveness of control measures.	
	5		 Proper training: Ensure that all workers involved in the setup of equipment have received appropriate training and are familiar with the correct procedures associated with handling nitrogen gas rigs and electrical components. 	
			- Use of mechanical lifting aids: Minimise manual handling by utilising suitable mechanical lifting aids (e.g., trolleys, winches) when moving heavy parts or equipment.	
	Manual handling injuries, Electrical		- Team lifting: Implement team lifting techniques and encourage clear communication among workers while engaging in tasks that require manual handling of equipment or materials.	
3. Setup Equipment	hazards	3H	- Ergonomics: Maintain good ergonomic practices by adjusting workstations, equipment, and tools to minimise physical strain on workers.	1L
			- Personal Protective Equipment (PPE): Ensure that workers wear appropriate PPE, such as gloves for manual handling tasks and non-conductive footwear to protect against electrical hazards.	
			- Pre-use equipment checks: Conduct routine pre-use checks on all equipment to ensure its proper functioning and safety features, and address any issues before beginning work.	
			- Safe electrical practices: Implement safe electrical practices, such as using insulated tools and de- energising circuits when required, to reduce risks associated with electrical hazards.	



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			- Work area organisation: Keep the work area organised to avoid clutter and reduce tripping hazards. Store tools and equipment properly when not in use.	
			- Risk assessment: Carry out a risk assessment by the starting work to identify potential hazards and establish effective control measures.	
			- Clear signage: Display clear signage in the vork area to mmunicate potential hazards, emergency procedures, and relevant safety information.	
			- Emergency response plans: Establish and regular y review emergency response plans, including evacuation routes, first aid a lability, and contact for report generates. Train workers to be familiar with these plans and be prepared to act in the even of a mergency.	
4. Connect Nitrogen Rig	Gas leaks, Connet on fair	2M		1L



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. Pressure Test	Rapid decompres n, Gas leaks	3H		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
				•
6. Monitor Pressure Faulty readings, Irrucurate measurements				
	2M		1L	
				•



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7. Purging System	Explosive atmosphere, Overpressurization	4A		3 H
8. Disconnect Rig	Gas leak, Part damage	2M		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
9. Clean Work Area	Slips, trips and falls, Chemical spills	2M		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
10. Inspect Rig for Damage	Sharp edges, Mechanical pinch points	2M		1L



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11. Store Equipment	Manual handling injuries, Incorrect storage	2M		1L



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				•
12. Document Results	Incomplete records, Miscommunicat his	1L		1L



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			<u> </u>	-



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/legislative

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 2011

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 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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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							





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 ppleted.		
Check control measures added to the SWMS are the most effective selections		
Responsible person is assigned and listed on the part the important portrol 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, a g 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 REVIE	WED
SIGNATURE	DATE COMPL	ETED