

Air Powered Tools Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE			Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	
Risk Rating & Required Action:								Notes on Hierarchy of Controls:	
4A Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.								Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H Review and approve additional controls before task starts. Senior supervisor sign-off needed.								1. Eliminate	
2M Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.								2. Substitute	
1L Proceed, following standard operating procedures. Monitor and keep records.								3. Isolate	
								4. Engineering	
								5. Administrative	
								6. PPE	
Consequence Scale:								Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Consequence	People (injury/illness)		Project / Assets		Compliance / Reputation				
Catastrophic	Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution				
Major	Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage				
Moderate	Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment				
Minor	First-aid only, no lost time		negligible delay		Isolated non-conformance				
Insignificant	No injury		no schedule impact		Deviation caught and corrected on site				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

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	improper air tool selection, lack of training	3H	<ul style="list-style-type: none"> - Conduct thorough job analysis to select the appropriate air powered tool. - Provide comprehensive training on the use of air powered tools. - Ensure all workers understand the manufacturer's guidelines. - Establish clear job roles and responsibilities. - Regularly review and update training programs. - Introduce mandatory certification for workers handling tools. - Display clear instruction signage on site. - Limit access to air tools to trained personnel. - Implement periodic skill assessments. - Engage in toolbox talks emphasizing tool selection. 	2M
2. Work Area Setup	cluttered work area, inadequate lighting	3L	<ul style="list-style-type: none"> - Ensure areas are cleared of unnecessary items before work begins. - Mark work zones clearly with paint or barriers. - Install sufficient lighting to meet industry standards. - Conduct regular inspections of workplace tidiness. - Organise dedicated storage for tools and materials. - Conduct general housekeeping and cleaning schedules. - Implement protocol for immediate spill cleanup. - Use task lighting in complex or dimly lit areas. - Ensure electrical sources are safely out of the way. - Maintain clear brush-cleared escape routes in areas. 	1L
3. Equipment Inspection	defective equipment, incomplete maintenance records	4A	<ul style="list-style-type: none"> - Conduct daily checks of air tools for wear and tear. - Keep complete, updated maintenance logs for equipment. - Schedule regular service intervals according to manufacturer's specs. - Train workers on defect identification and reporting procedures. - Implement a tagging system for damaged tools. - Conduct inspections by certified personnel only. - Store inspection records in an accessible database. - Use digital checklists for consistent inspections. 	2M

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			<ul style="list-style-type: none"> - Ensure redundant tools are available in case of tool failure. - Conduct random audits on inspection compliance. 	
4. PPE Use	inadequate PPE usage, improper fit	3H	<ul style="list-style-type: none"> - Ensure all workers are trained on proper PPE usage and fit. - Conduct regular PPE fit tests and inspections. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. 	1L
5. Operating Equipment	loss of control, excessive noise	4A	<ul style="list-style-type: none"> - Ensure all workers are trained on proper equipment operation. - Conduct regular equipment inspections and maintenance. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. 	2M
6. Compressed Air Use	burst pipes, entanglement	4A	<ul style="list-style-type: none"> - Ensure all workers are trained on proper equipment operation. - Conduct regular equipment inspections and maintenance. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. - Provide PPE for all workers, regardless of task. - Enforce PPE usage at all times on the job site. 	2M

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7. Ergonomics	repetitive stress injuries, poor posture	3H		1L
8. Handling Materials	manual handling injuries, falling objects	4A		2M
9. Safe Shutdown	sudden tool activation, incomplete shutdown process	3H		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
10. Maintenance	electrical shock, unexpected start-up	4A	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
11. Emergency Response	insufficient emergency procedures, delayed response	4A	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
12. Atmospheric Monitoring	build-up of harmful gases, dust exposure	4A	<div></div>	2M

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13. Tool Storage and Transport	misplaced tools, damage during transport	3H		1L
14. Waste Management	improper disposal, environmental hazards	3H		1L

<p>reporting, incomplete</p>	<p>4A</p>	<p>[REDACTED]</p>
<p>early symptoms of illness eases</p>	<p>4A</p>	<p>[REDACTED]</p>

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 IF ANY STATE THAT 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>

Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-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/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-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>

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-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

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/workplaces/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.