

Abrasive Whe	eels Use of Engineering Ris	sk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N.			



				F	RISK MATRIX			
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation	
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the	
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang	
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP	
A       Stop work. The risk is intolerable, cominate the hazarc predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic vis required.         3H       Review and approve additional controls for exact task parts. Senior supervisor sign-off needed.         2M       Ensure all nominated controls are imprace and efficience. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedure: Monitor and keep records.         Consequence Scale:							Notes on Hierarchy of Controls:         Remember to apply controls in the preferred order shown by the coloured pyramid:         1.       Eliminate         2.       Substitute         3.       Isolate         4.       Engineering         5.       Administrative         6.       PPE	
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	Significant regulator intervention; criminal prosecution Improvement notice; major media coverage		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at	
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Minor breach; adverse client comment		work (2023) and ISO 45001:2018 clauses 6–8.	
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
			no schedule	Deviation caught and corrected on site				



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 equipment setup, Lack of training	ЗН	<ul> <li>Conduct a pre-start inspection of equipment</li> <li>Ensure all operators are trained and compete</li> <li>Provide clear instructions and a safety blue ng</li> <li>Use appropriate personal protective equipment (Prov) such as gloves and goggles</li> <li>Maintain a clean and well-orbanised workspace</li> <li>Verify that the abrasive wheeler suitable for the join</li> <li>Check that all struct guides are volproprogramming signs</li> <li>Inspected computions and retrovable cables</li> <li>Revultive manufacturer's safety guidelines</li> </ul>	2M
2. Securing Workpiece	Workpiece movement arrange injuries	2	<ul> <li>Use al, trophete clameteor vices to secure the workpiece</li> <li>Use al, trophete clameteor vices to secure the workpiece</li> <li>Use under the workpiece does not exceed the capacity of the tool</li> <li>Main, the safe distance between hands and moving parts</li> <li>Tain workers on proper manual handling techniques</li> <li>Supervise initial positioning and adjustments</li> <li>Use guides or fixtures when necessary</li> <li>Cordon off unused areas of the workspace</li> <li>Regularly check securing devices for wear or damage</li> <li>Follow best practices for load limits of tools and equipment</li> <li>Provide instruction on removal and repositioning of workpieces safely</li> </ul>	1L
3. Inspection of Abrasive Wheel	Wheel defects, Improper installation	4A	<ul> <li>Inspect the wheel for cracks or defects prior to use</li> <li>Ensure that the wheel is correctly installed and aligned</li> <li>Regularly perform maintenance checks</li> <li>Train staff to identify signs of wheel wear</li> <li>Use tools specifically designed for wheel replacement</li> <li>Conduct a trial run at no load before commencing work</li> <li>Regularly review and update the inspection checklist</li> <li>Provide adequate lighting in inspection areas</li> </ul>	2M



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			- Ensure only authorised personnel conduct inspections	
			- Establish a reporting system for defects	
4. Powering the Machine	Electrical hazards, Unexpected startup	4A		2M
5. Starting the Operation	Tool kickback, Flying particles	4A		2M
6. Grinding/ Cutting Process	Sparks and hot metal, Inhalation of dust	4A		2M



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7. Monitoring and Supervision	Operator fatigue, Lack of compliance	ЗН		1L
8. Parking and Storing the Tool	Trip hazards, Tool Contractor	ЗН		1L
9. Maintenance and Cleaning	Chemical exposure, Sharp edges	ЗН		1L



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10. Disposal of Waste	Environmental impact, Injury from sharp objects	ЗН		1L
11. Incident Reporting	Unreported hazards, Non-compliand	ЗН		1L
12. Emergency Procedures	Inadequate response, Panic	4A		2M



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13. Reviewing and Updating Procedures	Outdated procedures, Non-compliance	ЗН		1L
14. Managing Contractors and Visitors	Unfamiliarity with site, Penr communication	ЗН		1L
15. Decommissioning Equipment	Residual energy, Improper disposal	ЗН		1L



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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 R	EFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	ISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Occupational Health and Safety Act and 4 Occupational Health and Safety Act and 4 Occupational Health and Safety Subject Safety Safet
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: <u>https://www.safework.nsw.gov.au/legal-obligations/legislati</u> Codes of Practice NSW: <u>https://www.safework.nsw.gov.au/resource-library/lis</u>	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formered-resources/compliance/workplace-serve-laws</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legulation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_daces/codes-of-practice#COPs</u>	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
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: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a>	<ul> <li>First aid in the workplace</li> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> </ul>
Details of permits, licenses or access required by regulatory bodies (add or delete as required): Permits from local council Authorisation to commence work	<ul> <li>Work health and safety consultation, cooperation and coordination</li> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>

- Any required documents.