

## Handle Flying Debris From Stump Grinding Risk Assessment

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

### THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS 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			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> 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.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	<b>Administrative</b> Change	
								<b>PPE</b>	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
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. <b>Eliminate</b>	
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	
<b>Consequence Scale:</b>								Always document <b>why</b> 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 use of tools, Site clearance issues	3H	<ul style="list-style-type: none"> <li>- Conduct a pre-start meeting to discuss work plan and hazards</li> <li>- Ensure all operators are trained and competent in using stump grinding equipment</li> <li>- Inspect the worksite for obstacles and clear debris</li> <li>- Confirm machinery is well-maintained and functioning correctly</li> <li>- Establish exclusion zones to prevent unauthorized access</li> <li>- Use signage to inform personnel and public of work in progress</li> <li>- Check weather conditions are suitable for stump grinding operations</li> <li>- Secure necessary permits before commencement</li> <li>- Communicate with team using radios/signals</li> <li>- Verify first aid kit and emergency contacts are available</li> </ul>	2M
2. Personal Protective Equipment (PPE)	Insufficient protection from debris, Incorrect PPE usage	3H	<ul style="list-style-type: none"> <li>- Ensure all team members wear appropriate PPE: hard hats, safety goggles, hearing protection, and gloves</li> <li>- Check that protective clothing such as long sleeves and trousers is worn by operators</li> <li>- Provide face shields and safety boots for additional protection</li> <li>- Conduct PPE checks prior to starting the work</li> <li>- Train staff on correct PPE usage and maintenance</li> <li>- Replace damaged or lost PPE immediately</li> <li>- Store PPE in a dry and safe location when not in use</li> <li>- Regularly update PPE in line with safety standards</li> <li>- Encourage operators to provide feedback on PPE comfort and functionality</li> <li>- Monitor PPE compliance throughout the job</li> </ul>	2M
3. Equipment Inspection	Equipment malfunction, Unexpected equipment failure	3H	<ul style="list-style-type: none"> <li>- Perform pre-operational checks on the stump grinder</li> <li>- Inspect blades and components for wear and tear</li> <li>- Verify all safety guards are in place and functional</li> <li>- Ensure fuel levels are sufficient for the task duration</li> <li>- Check for any leaks in hydraulic or fuel systems</li> <li>- Implement regular maintenance schedule for equipment</li> <li>- Use only manufacturer-approved parts and accessories</li> <li>- Document inspections and maintenance activities</li> </ul>	1L

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			<ul style="list-style-type: none"> <li>- Train operators in identifying potential equipment issues</li> <li>- Keep spare parts on-site for quick replacements</li> </ul>	
4. Site Setup	Inadequate hazard barriers, Public access to worksite	4A	<ul style="list-style-type: none"> <li>- Establish exclusion zone around worksite</li> <li>- Use high-visibility safety vests and hard hats</li> <li>- Post warning signs and barriers</li> <li>- Assign a dedicated safety officer</li> <li>- Conduct pre-work safety briefing</li> <li>- Maintain clear communication with all personnel</li> <li>- Use spotters for blind spots</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> </ul>	2M
5. Operation of Stump Grinder	Flying debris, Machine operator error	4A	<ul style="list-style-type: none"> <li>- Wear eye protection and hard hats</li> <li>- Maintain a safe distance from the machine</li> <li>- Use proper cutting techniques</li> <li>- Avoid reaching into the machine</li> <li>- Keep hands and feet clear of moving parts</li> <li>- Use proper flagging techniques</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> </ul>	2M
6. Monitoring and Communication	Lack of communication, Inadequate supervision	3H	<ul style="list-style-type: none"> <li>- Establish a clear communication protocol</li> <li>- Use hand signals and verbal communication</li> <li>- Assign a dedicated safety officer</li> <li>- Conduct regular safety checks</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> <li>- Implement a strict no-distracted-work policy</li> <li>- Regularly inspect safety equipment</li> <li>- Establish a safe work area</li> <li>- Use proper flagging techniques</li> </ul>	1L

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7. Debris Management	Improper debris disposal, Accumulation of debris, Unmarked debris hazards	3H		1L
8. Emergency Preparedness	Delayed emergency response Inadequate first aid supplies	4A		2M
9. Environmental Considerations	Damage to flora and fauna, Ground disturbance	3H		1L

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10. Finalisation	Unsecured machinery, Residual debris	3H		1L
11. Inspection and Reporting	Missed hazards, Incomplete reporting	3H		1L
12. Review and Feedback	Lack of process improvements, Team member disengagement	3H		1L

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13. Equipment Maintenance	Equipment deterioration, Unsafe storage	3H		1L
14. Documentation and Compliance	Inadequate safety documentation, policy non-conformance	3H		1L
15. Continuous Monitoring and Improvement	Lack of adaptive strategies, Failure to notice hazard changes	3H		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	

SAMPLE



## 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.