

## Beam Saw 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			<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. Job Setup	Moving objects, Manual handling	3H	<ul style="list-style-type: none"> <li>- Ensure work area is clean and free of obstructions</li> <li>- Use mechanical aids for moving heavy materials</li> <li>- Train employees in manual handling techniques</li> <li>- Wear appropriate PPE such as gloves and safety boots</li> <li>- Implement traffic management to prevent collisions with moving objects</li> <li>- Conduct a pre-start meeting to identify potential hazards</li> <li>- Clearly mark hazardous areas</li> <li>- Implement safe working procedures</li> <li>- Ensure adequate lighting is available in the work area</li> <li>- Use clearly visible signage to indicate dangers</li> </ul>	2M
2. Material Loading	Muscle strain, Falling objects	3H	<ul style="list-style-type: none"> <li>- Use mechanical aids for lifting materials</li> <li>- Train staff in correct lifting techniques</li> <li>- Use appropriate PPE including helmets for head protection</li> <li>- Secure materials to prevent falling</li> <li>- Implement buddy system for assistance in loading</li> <li>- Check tools and equipment before use</li> <li>- Establish exclusion zones</li> <li>- Use anti-fatigue mats for personnel</li> <li>- Conduct regular breaks to prevent fatigue</li> <li>- Utilise adjustable support structures when necessary</li> </ul>	2M
3. Calibration of Saw	Electrical shock, Incorrect settings	3H	<ul style="list-style-type: none"> <li>- Train employees to calibrate equipment correctly</li> <li>- Ensure equipment is disconnected before calibration</li> <li>- Conduct risk assessments before starting work</li> <li>- Use lockout-tagout (LOTO) systems</li> <li>- Regularly audit calibration procedures</li> <li>- Verify settings before beginning operations</li> <li>- Use insulated tools when adjusting machinery</li> <li>- Implement supervision by trained personnel</li> </ul>	1L

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
			<ul style="list-style-type: none"> <li>- Ensure calibrators are competent</li> <li>- Use standard operating procedures for all calibrations</li> </ul>	
4. Blade Inspection	Cuts, Injury from improper handling	3H	<ul style="list-style-type: none"> <li>- Wear cut-resistant gloves</li> <li>- Inspect blade for damage before use</li> <li>- Use proper handling techniques</li> <li>- Keep work area clean and free of clutter</li> <li>- Use safety barriers to prevent unauthorized access</li> <li>- Post warning signs in the work area</li> <li>- Ensure adequate lighting</li> <li>- Use proper storage for blades</li> <li>- Regularly inspect and maintain equipment</li> <li>- Provide training on safe handling procedures</li> <li>- Use safety protocols for blade changes</li> <li>- Establish a no-go zone around the blade</li> <li>- Use safety harnesses when working at heights</li> <li>- Ensure proper ventilation</li> <li>- Use fall protection when working on roofs or ladders</li> <li>- Use proper lifting techniques</li> <li>- Avoid overexertion</li> <li>- Use proper body mechanics</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Use proper footwear</li> <li>- Use safety glasses</li> <li>- Use earplugs or earmuffs if noise levels are high</li> <li>- Use dust masks or respirators if dust levels are high</li> <li>- Use proper posture</li> <li>- Avoid repetitive motions</li> <li>- Use ergonomic tools and equipment</li> <li>- Use proper stretching techniques</li> <li>- Use proper warm-up routines</li> <li>- Use proper cool-down routines</li> <li>- Use proper hydration techniques</li> <li>- Use proper nutrition</li> <li>- Use proper sleep hygiene</li> <li>- Use proper stress management techniques</li> <li>- Use proper time management techniques</li> <li>- Use proper prioritization techniques</li> <li>- Use proper delegation techniques</li> <li>- Use proper communication techniques</li> <li>- Use proper conflict resolution techniques</li> <li>- Use proper decision-making techniques</li> <li>- Use proper problem-solving techniques</li> <li>- Use proper critical thinking techniques</li> <li>- Use proper analytical skills</li> <li>- Use proper creative skills</li> <li>- Use proper interpersonal skills</li> <li>- Use proper intrapersonal skills</li> <li>- Use proper self-management skills</li> <li>- Use proper time management skills</li> <li>- Use proper organization skills</li> <li>- Use proper planning skills</li> <li>- Use proper execution skills</li> <li>- Use proper evaluation skills</li> <li>- Use proper improvement skills</li> <li>- Use proper learning skills</li> <li>- Use proper growth skills</li> <li>- Use proper resilience skills</li> <li>- Use proper adaptability skills</li> <li>- Use proper flexibility skills</li> <li>- Use proper openness skills</li> <li>- Use proper curiosity skills</li> <li>- Use proper empathy skills</li> <li>- Use proper compassion skills</li> <li>- Use proper kindness skills</li> <li>- Use proper generosity skills</li> <li>- Use proper gratitude skills</li> <li>- Use proper positivity skills</li> <li>- Use proper optimism skills</li> <li>- Use proper hope skills</li> <li>- Use proper faith skills</li> <li>- Use proper love skills</li> <li>- Use proper peace skills</li> <li>- Use proper joy skills</li> <li>- Use proper happiness skills</li> <li>- Use proper well-being skills</li> <li>- Use proper health skills</li> <li>- Use proper fitness skills</li> <li>- Use proper nutrition skills</li> <li>- Use proper sleep skills</li> <li>- Use proper stress management skills</li> <li>- Use proper time management skills</li> <li>- Use proper organization skills</li> <li>- Use proper planning skills</li> <li>- Use proper execution skills</li> <li>- Use proper evaluation skills</li> <li>- Use proper improvement skills</li> <li>- Use proper learning skills</li> <li>- Use proper growth skills</li> <li>- Use proper resilience skills</li> <li>- Use proper adaptability skills</li> <li>- Use proper flexibility skills</li> <li>- Use proper openness skills</li> <li>- Use proper curiosity skills</li> <li>- Use proper empathy skills</li> <li>- Use proper compassion skills</li> <li>- Use proper kindness skills</li> <li>- Use proper generosity skills</li> <li>- Use proper gratitude skills</li> <li>- Use proper positivity skills</li> <li>- Use proper optimism skills</li> <li>- Use proper hope skills</li> <li>- Use proper faith skills</li> <li>- Use proper love skills</li> <li>- Use proper peace skills</li> <li>- Use proper joy skills</li> <li>- Use proper happiness skills</li> <li>- Use proper well-being skills</li> </ul>	2M
5. Operation Start	Flying debris, High noise levels	4A	<ul style="list-style-type: none"> <li>- Wear eye protection</li> <li>- Use earplugs or earmuffs</li> <li>- Use dust masks or respirators</li> <li>- Use safety barriers</li> <li>- Post warning signs</li> <li>- Ensure adequate lighting</li> <li>- Use proper storage for debris</li> <li>- Regularly inspect and maintain equipment</li> <li>- Provide training on safe handling procedures</li> <li>- Use safety protocols for debris removal</li> <li>- Establish a no-go zone around the debris</li> <li>- Use safety harnesses when working at heights</li> <li>- Ensure proper ventilation</li> <li>- Use fall protection when working on roofs or ladders</li> <li>- Use proper lifting techniques</li> <li>- Avoid overexertion</li> <li>- Use proper body mechanics</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Use proper footwear</li> <li>- Use safety glasses</li> <li>- Use earplugs or earmuffs if noise levels are high</li> <li>- Use dust masks or respirators if dust levels are high</li> <li>- Use proper posture</li> <li>- Avoid repetitive motions</li> <li>- Use ergonomic tools and equipment</li> <li>- Use proper stretching techniques</li> <li>- Use proper warm-up routines</li> <li>- Use proper cool-down routines</li> <li>- Use proper hydration techniques</li> <li>- Use proper nutrition</li> <li>- Use proper sleep hygiene</li> <li>- Use proper stress management techniques</li> <li>- Use proper time management techniques</li> <li>- Use proper prioritization techniques</li> <li>- Use proper delegation techniques</li> <li>- Use proper communication techniques</li> <li>- Use proper conflict resolution techniques</li> <li>- Use proper decision-making techniques</li> <li>- Use proper problem-solving techniques</li> <li>- Use proper critical thinking techniques</li> <li>- Use proper analytical skills</li> <li>- Use proper creative skills</li> <li>- Use proper interpersonal skills</li> <li>- Use proper intrapersonal skills</li> <li>- Use proper self-management skills</li> <li>- Use proper time management skills</li> <li>- Use proper organization skills</li> <li>- Use proper planning skills</li> <li>- Use proper execution skills</li> <li>- Use proper evaluation skills</li> <li>- Use proper improvement skills</li> <li>- Use proper learning skills</li> <li>- Use proper growth skills</li> <li>- Use proper resilience skills</li> <li>- Use proper adaptability skills</li> <li>- Use proper flexibility skills</li> <li>- Use proper openness skills</li> <li>- Use proper curiosity skills</li> <li>- Use proper empathy skills</li> <li>- Use proper compassion skills</li> <li>- Use proper kindness skills</li> <li>- Use proper generosity skills</li> <li>- Use proper gratitude skills</li> <li>- Use proper positivity skills</li> <li>- Use proper optimism skills</li> <li>- Use proper hope skills</li> <li>- Use proper faith skills</li> <li>- Use proper love skills</li> <li>- Use proper peace skills</li> <li>- Use proper joy skills</li> <li>- Use proper happiness skills</li> <li>- Use proper well-being skills</li> </ul>	2M
6. Material Cutting	Cuts, Dust inhalation	4A	<ul style="list-style-type: none"> <li>- Wear cut-resistant gloves</li> <li>- Use dust masks or respirators</li> <li>- Use safety barriers</li> <li>- Post warning signs</li> <li>- Ensure adequate lighting</li> <li>- Use proper storage for debris</li> <li>- Regularly inspect and maintain equipment</li> <li>- Provide training on safe handling procedures</li> <li>- Use safety protocols for debris removal</li> <li>- Establish a no-go zone around the debris</li> <li>- Use safety harnesses when working at heights</li> <li>- Ensure proper ventilation</li> <li>- Use fall protection when working on roofs or ladders</li> <li>- Use proper lifting techniques</li> <li>- Avoid overexertion</li> <li>- Use proper body mechanics</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Use proper footwear</li> <li>- Use safety glasses</li> <li>- Use earplugs or earmuffs if noise levels are high</li> <li>- Use dust masks or respirators if dust levels are high</li> <li>- Use proper posture</li> <li>- Avoid repetitive motions</li> <li>- Use ergonomic tools and equipment</li> <li>- Use proper stretching techniques</li> <li>- Use proper warm-up routines</li> <li>- Use proper cool-down routines</li> <li>- Use proper hydration techniques</li> <li>- Use proper nutrition</li> <li>- Use proper sleep hygiene</li> <li>- Use proper stress management techniques</li> <li>- Use proper time management techniques</li> <li>- Use proper prioritization techniques</li> <li>- Use proper delegation techniques</li> <li>- Use proper communication techniques</li> <li>- Use proper conflict resolution techniques</li> <li>- Use proper decision-making techniques</li> <li>- Use proper problem-solving techniques</li> <li>- Use proper critical thinking techniques</li> <li>- Use proper analytical skills</li> <li>- Use proper creative skills</li> <li>- Use proper interpersonal skills</li> <li>- Use proper intrapersonal skills</li> <li>- Use proper self-management skills</li> <li>- Use proper time management skills</li> <li>- Use proper organization skills</li> <li>- Use proper planning skills</li> <li>- Use proper execution skills</li> <li>- Use proper evaluation skills</li> <li>- Use proper improvement skills</li> <li>- Use proper learning skills</li> <li>- Use proper growth skills</li> <li>- Use proper resilience skills</li> <li>- Use proper adaptability skills</li> <li>- Use proper flexibility skills</li> <li>- Use proper openness skills</li> <li>- Use proper curiosity skills</li> <li>- Use proper empathy skills</li> <li>- Use proper compassion skills</li> <li>- Use proper kindness skills</li> <li>- Use proper generosity skills</li> <li>- Use proper gratitude skills</li> <li>- Use proper positivity skills</li> <li>- Use proper optimism skills</li> <li>- Use proper hope skills</li> <li>- Use proper faith skills</li> <li>- Use proper love skills</li> <li>- Use proper peace skills</li> <li>- Use proper joy skills</li> <li>- Use proper happiness skills</li> <li>- Use proper well-being skills</li> </ul>	1L

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7. Blade Replacement	Cut injuries, Loose parts	3H		2M
8. Waste Removal	Manual handling injuries, trips and falls	3H		2M
9. Equipment Maintenance	Mechanical failure, Exposure to chemicals	3H		1L

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10. Emergency Response Preparedness	Inadequate emergency procedures, Lack of first aid facilities	4A		1L
11. Shutdown Procedure	Incorrect shutdown, Residual energy hazards	3H		1L
12. Supervision and Monitoring	Human error, Inadequate supervision	3H		2M

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13. Record Keeping	Loss of data, Inaccurate records	3H		1L
14. Worker Training	Inadequate training, Skills gap	3H		1L
15. Quality Control	Defects in product, Non-conformance	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.