

## Crawler Dozer Operation 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. Preparation	Slips, Trips and Falls, Weather Conditions	3H	<ul style="list-style-type: none"> <li>- Ensure work area is free from clutter and trip hazards</li> <li>- Conduct a weather check and plan work around adverse conditions</li> <li>- Wear appropriate footwear with anti-slip soles</li> <li>- Use weather shields where applicable</li> <li>- Implement signage to warn of slippery surfaces</li> <li>- Train operators on site-specific hazards</li> <li>- Use spotters in areas with poor visibility</li> <li>- Ensure operators are well rested to maintain hazard awareness</li> <li>- Have emergency control methods available</li> <li>- Maintain work equipment to prevent failures due to weather</li> </ul>	2M
2. Conduct Pre-Operational Checks	Equipment Failure, Operator Error	3H	<ul style="list-style-type: none"> <li>- Follow manufacturer's pre-operational checklist</li> <li>- Inspect for signs of wear and damage</li> <li>- Verify all controls and safety systems are functioning correctly</li> <li>- Ensure fluids are topped up to recommended levels</li> <li>- Use only licensed and trained operators</li> <li>- Create a standard operating procedure for checks</li> <li>- Keep a logbook of equipment checks</li> <li>- Use digital systems to monitor equipment health</li> <li>- Schedule regular maintenance based on usage</li> <li>- Train operators on recognising potential issues</li> </ul>	1L
3. Safe Mounting and Dismounting	Falls from Heights, Striking Against Equipment	3H	<ul style="list-style-type: none"> <li>- Use three points of contact rule at all times</li> <li>- Ensure access areas are clean and dry</li> <li>- Provide operator training on safe entry and exit</li> <li>- Use non-slip materials on steps and handholds</li> <li>- Maintain steps and handholds in good condition</li> <li>- Implement signage for safe climbing procedures</li> <li>- Wear gloves with a good grip</li> <li>- Conduct regular inspections of access points</li> </ul>	1L

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			<ul style="list-style-type: none"> <li>- Use ladders or platforms with adequate railings</li> <li>- Ensure proper lighting around the work equipment</li> </ul>	
4. Starting the Dozer	Noise, Exhaust Emissions	3H	<ul style="list-style-type: none"> <li>- Wear hearing protection</li> <li>- Maintain safe distance from exhaust</li> <li>- Use proper ventilation</li> <li>- Wear seat belt</li> <li>- Avoid distractions</li> <li>- Follow manufacturer's instructions</li> <li>- Use proper work techniques</li> <li>- Keep work area clear</li> <li>- Use proper lighting</li> <li>- Avoid working in confined spaces</li> <li>- Use proper communication</li> <li>- Follow safety protocols</li> <li>- Use proper equipment</li> <li>- Keep equipment in good condition</li> <li>- Use proper maintenance</li> <li>- Follow safety training</li> <li>- Use proper work schedule</li> <li>- Avoid overexertion</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Wear proper clothing</li> <li>- Use proper footwear</li> <li>- Avoid alcohol</li> <li>- Stay sober</li> <li>- Use proper communication</li> <li>- Follow safety protocols</li> <li>- Use proper equipment</li> <li>- Keep equipment in good condition</li> <li>- Use proper maintenance</li> <li>- Follow safety training</li> <li>- Use proper work schedule</li> <li>- Avoid overexertion</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Wear proper clothing</li> <li>- Use proper footwear</li> <li>- Avoid alcohol</li> <li>- Stay sober</li> </ul>	2M
5. Operating the Dozer	Ground Instability, Overturning	4A	<ul style="list-style-type: none"> <li>- Assess ground conditions</li> <li>- Avoid working on unstable ground</li> <li>- Use proper work techniques</li> <li>- Keep work area clear</li> <li>- Use proper lighting</li> <li>- Avoid working in confined spaces</li> <li>- Use proper communication</li> <li>- Follow safety protocols</li> <li>- Use proper equipment</li> <li>- Keep equipment in good condition</li> <li>- Use proper maintenance</li> <li>- Follow safety training</li> <li>- Use proper work schedule</li> <li>- Avoid overexertion</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Wear proper clothing</li> <li>- Use proper footwear</li> <li>- Avoid alcohol</li> <li>- Stay sober</li> </ul>	2M
6. Reversing	Collisions, Blind Spots	4A	<ul style="list-style-type: none"> <li>- Use proper work techniques</li> <li>- Keep work area clear</li> <li>- Use proper lighting</li> <li>- Avoid working in confined spaces</li> <li>- Use proper communication</li> <li>- Follow safety protocols</li> <li>- Use proper equipment</li> <li>- Keep equipment in good condition</li> <li>- Use proper maintenance</li> <li>- Follow safety training</li> <li>- Use proper work schedule</li> <li>- Avoid overexertion</li> <li>- Take regular breaks</li> <li>- Stay hydrated</li> <li>- Wear proper clothing</li> <li>- Use proper footwear</li> <li>- Avoid alcohol</li> <li>- Stay sober</li> </ul>	2M

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7. Parking	Unattended Vehicle Roll Away, Unsecure Parking	3H		1L
8. Shutdown Procedures	Entanglement, Accidents, Observation	3H		1L
9. Refuelling	Fire, Fuel Spills	4A		2M

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10. Maintenance	Physical Injury, Chemical Exposure	4A		2M
11. Transporting Equipment	Load Shifting, Traffic Hazards	4A		2M
12. Operating in Poor Visibility	Accidents, Misjudgment	4A		2M

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13. Working Near Utilities	Electrocution, Striking Underground Services	4A		2M
14. Environmental Considerations	Soil Erosion, Wildlife Disturbance	3H		2M
15. Emergency Procedures	Inadequate Response, Delayed Evacuation	4A		2M

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16. Communication	Miscommunication, Communication Device Failure	3H		1L
17. Working with Other Machinery	Machinery Collisions, Workflow Interferences	4A		2M
18. Working at Night	Poor Visibility, Fatigue	4A		2M



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19. Noise Control	Hearing Damage, Communication Breakdown	3H		1L
20. Debriefing and Reporting	Inaccurate Records, Failure to Identify Lessons Learned	2M		1L

## 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.