

## Operate Line Marking Machines 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.	<b>Isolation</b> 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>

## Risk Rating &amp; Required Action:

<b>4A</b>	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.
<b>3H</b>	Review and approve additional controls before task starts. Senior supervisor sign-off needed.
<b>2M</b>	Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.
<b>1L</b>	Proceed, following standard operating procedures. Monitor and keep records.

## Consequence Scale:

Consequence	People (injury/illness)	Project / Assets	Compliance / Reputation
<b>Catastrophic</b>	Fatality or permanent total disability	project shutdown	Significant regulator intervention; criminal prosecution
<b>Major</b>	Serious injury/illness (hospital > 5 days)	critical delay	Improvement notice; major media coverage
<b>Moderate</b>	Medical-treatment injury; lost-time > 1 day	moderate delay	Minor breach; adverse client comment
<b>Minor</b>	First-aid only, no lost time	negligible delay	Isolated non-conformance
<b>Insignificant</b>	No injury	no schedule impact	Deviation caught and corrected on site

## 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**

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.

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	Incorrect PPE usage, Machine malfunction	3H	<ul style="list-style-type: none"> <li>- Conduct a pre-inspection of the machine to ensure its functioning well.</li> <li>- Ensure all personnel are trained in PPE requirements relevant to line marking.</li> <li>- Verify that operators have appropriate certifications for operating machinery.</li> <li>- Check for availability and condition of all required PPE (helmets, gloves, safety boots, goggles, ear protection).</li> <li>- Review and maintain up-to-date safety documentation and procedures.</li> <li>- Calibrate line marking machine per manufacturer's instructions.</li> <li>- Ensure the work area is free from obstructions and debris.</li> <li>- Confirm communication protocols are in place for outlined activities.</li> <li>- Display site hazards and controls on a visible site map.</li> <li>- Inspect controls for operation emergency switch functionality.</li> </ul>	2M
2. Transport Equipment	Traffic accidents, Load securing failures	3H	<ul style="list-style-type: none"> <li>- Utilize company approved vehicles that meet safety standards for transporting line marking machines.</li> <li>- Secure load appropriately in compliance with road safety standards.</li> <li>- Ensure drivers are licensed and have completed relevant fatigue management training.</li> <li>- Plan route to minimize exposure to heavy traffic and potential hazards.</li> <li>- Verify that vehicles have proper signage indicating wide/bulky load.</li> <li>- Allocate responsibility for securing the load to a trained individual.</li> <li>- Use cautionary flaggers to direct traffic around loading/unloading zones.</li> <li>- Stress the importance of adhering to speed limits.</li> <li>- Schedule transportation during low-traffic periods if possible.</li> <li>- Conduct routine checks on tire pressure and vehicle maintenance.</li> </ul>	2M
3. Site Setup	Collisions with other vehicles, Slip and trip	3H	<ul style="list-style-type: none"> <li>- Set up exclusion zones with cones and barriers to keep public and untrained staff away.</li> <li>- Use designated parking and access points for machinery.</li> <li>- Train staff according to site-specific entry and exit protocols.</li> <li>- Secure the area around ongoing work with clear signage and demarcations.</li> <li>- Ensure walkways are clear and free from obstructions or spills.</li> <li>- Assign a safety officer to oversee setup process take preventive action against risks.</li> <li>- Incorporate visual guides to alert workers of on-site traffic direction.</li> <li>- Check that lighting is adequate for conditions, particularly in dim areas.</li> </ul>	2M

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			<ul style="list-style-type: none"> <li>- Coordinate with local authorities regarding road closures or detours.</li> <li>- Conduct a toolbox meeting to discuss hazards specific to the site.</li> </ul>	
4. Equipment Start-Up	Unintentional machine movement, Noise-induced hearing loss	3H	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
5. Line Marking Operations	Chemical exposure, Poor visibility during operation	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
6. Monitoring and Adjustments	Operator fatigue, Inaccurate line marking	3H	<p>[REDACTED]</p> <p>[REDACTED]</p>	1L

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7. Equipment Shutdown	Residual energy discharge, Unscheduled pipeline failures	3H		2M
8. Maintenance	Tool malfunction, Maintenance by unqualified personnel	3H		1L

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9. Waste Management	Chemical spills, Improper disposal of waste paint	4A		1L
10. Post-Operation Review	Accurate completion of logs, Site disorganisation	2M		1L
11. Training	Knowledge gaps, Inadequate skill level	2M		1L

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12. Emergency Response Preparation	Delayed response to emergencies, Inadequate first aid support		<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
13. Communication	Miscommunication, Lack of signal clarity	2M	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L

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14. Environmental Considerations	Contamination of natural resources, Air pollution	4A		2M
15. Ergonomics	Musculoskeletal disorders, Repetitive motion injuries	3H		1L
16. Security	Theft or vandalism, Unauthorised access	3H		1L

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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>

### 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>

### 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>

### 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.

### 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>

### 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>

### 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