

| Metal Cnc Wa  | aterjet Cutting Machine Ris      | k Assessment                     |                           |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name:  |                                  | ABN:                             |                           |
| Business Address:   |                                  |                                  |                           |
| Contact Person:   | Phone:                           | Ema.                             |                           |
|   |                                  |                                  |                           |
| THIS RISK ASSESSI   | MENT IS APPROVED BY THE PC       | BU ON W PROJECT                  |                           |
| Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensu | re that a RISK ASSESSMENT |
| Full Name:  |                                  |                                  |                           |
| Signature:  |                                  | ritle:                           | Date:                     |
|   |                                  |                                  |                           |
| CL  | OR PRICEIN LCO. TRACTOR I        | DETAILS                          |                           |
| Client:   |                                  | SCOPE OF                         | WORKS                     |
| Project Name:   |                                  |                                  |                           |
| Project Address:  |                                  |                                  |                           |
| Project Manager:  |                                  |                                  |                           |
| Contact Phone:  |                                  |                                  |                           |
| Date Risk Assessment supplied to Project In.  |                                  |                                  |                           |

Version 2.5 Authorised by Review # Review Date:



#### **RISK MATRIX LIKELIHOOD** INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY MODERATE HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

### Risk Rating & Required Action:

| 4A | Stop work. The risk is intolerable,   | minate the hazard      | redesign the activity before proceeding. A Safe Work |
|----|---------------------------------------|------------------------|--|
|    | Method Statement (SWMS) or hime       | er-level authorisation | is required.   |
| 3H | Review and approve additional c       | role 'ask              | arts. Senior supervisor sign-off needed.             |
| 2M | Ensure all nominated controls are in- | prace and effective    | Proceed with caution; monitor conditions.            |
| 1L | Proceed, following standard operating | ig procedure // Ion    | itor and keep records.                               |

### **Consequence Scale:**

| 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                   |

#### Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Eliminate
- 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<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS  | RESIDUAL<br>RISK |
| 1. Preparation      | Slippery floors, Electric shock           | 3H              | - Ensure work area is clean and dry before operation  - Wear insulated gloves for handling electrical codes  - Use non-slip mats around the machine all  - Conduct regular electrical safety inspections  - Provide electrical hazard avoreness training  - Ensure all equipment is propose grounded  - Post safety sign of around slipper a zones  - Provide accounties around slipper a zones  - Use of uipment with proper safety certifications  - Control or e-stall and ipment checks                         | 1L               |
| 2. Machine Setup    | Mechanical pinch point rect setul         | 31              | - Train or eraction in process setup procedures  - stall goards as und mechanical components  Uses of cut/tagout procedures during setup  - egularly inspect and maintain setup equipment  - Provide clear setup instructions and diagrams  - Conduct a setup checklist before starting operations  - Supervise initial setup by experienced personnel  - Use appropriate tools for machine setup  - Calibrate machines according to manufacturer specifications  - Conduct setup training and refreshers regularly | 1L               |
| 3. Material Loading | Manual handling injuries, Falling objects | 3H              | - Use mechanical aids for lifting heavy materials - Train workers on proper lifting techniques - Secure materials with straps or clamps - Keep work area clear from obstacles - Implement safe stacking practices - Wear steel-capped boots and gloves - Use team lifting for awkward loads - Conduct regular manual handling training  | 1L               |



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| JOB STEP            | POTENTIAL HAZARDS                                  | IR              | CONTROL MEASURES   | RR               |
|---------------------|--|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE                             | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                     |  |                 | - Ensure materials are properly balanced                               |                  |
|                     |  |                 | - Display load limit signage   |                  |
| 4. Calibration      | Calibration errors, Exposure to fine particles     | 3H              |  | 1L               |
| 5. Operation Start  | Inadequate machin guarding,<br>Unauthorized accins | ЗН              |  | 1L               |
| 6. Cutting Process  | High-pressure waterjet, Noise exposure             | 4A              |  | 2M               |



| JOB STEP                        | POTENTIAL HAZARDS                                   | IR              | CONTROL MEASURES   | RR               |
|---------------------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS             | HAZARDS THAT MAY ARISE                              | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                                 |   |                 |  |                  |
| 7. Monitoring and<br>Adjustment | Unexpected machine behaviour,<br>Accidental contact | 3H              |  | 1L               |
| 8. Material Unloading           | Sharp edges on comaterios, ang materials            | 3H              |  | 1L               |
| 9. Cleaning and<br>Maintenance  | Chemical exposure, Slips, trips, and falls          | 3H              |  | 1L               |



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| JOB STEP                     | POTENTIAL HAZARDS                                     | IR              | CONTROL MEASURES   | RR               |
|------------------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS          | HAZARDS THAT MAY ARISE                                | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
| 10. Shutdown                 | Incomplete shutdown, Accidental restart               | зн              |  | 1L               |
| 11. Emergency<br>Situations  | Inadequate emergency response, Parc during evacuation | ЗН              |  | 1L               |
| 12. Training and Improvement | Insufficient training, Non-compliance with procedures | ЗН              |  | 1L               |



| JOB STEP                          | POTENTIAL HAZARDS                                | IR              | CONTROL MEASURES   | RR               |
|-----------------------------------|--|-----------------|--|------------------|
| SPECIFIC WORK STEPS               | HAZARDS THAT MAY ARISE                           | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
| 13. Documentation and<br>Records  | Inaccurate record-keeping, Loss of critical data | 3H              |  | 1L               |
| 14. Supervision and Communication | Miscommunication, Lacit Course Sion              | 3Н              |  | 1L               |
| 15. Inspections and Audits        | Overlooked safety issues, Inadequate follow-up   | 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 REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES. ANY STATE OF AT ARE NOT APPLICABLE.

#### **Queensland & Australian Capital Territory**

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\textbf{Legislation QLD:} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}$ 

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/legislative

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

#### **Northern Territory**

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Codes of Practice NT: https://worksafe.nt.gov.au/f

#### 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/le

Codes of Practice for SA: https://www.safework.sa.gov.au/work\_aces/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 at Safety Act 34

Occupational Health and affety gulations 2017

Legis on VIC: https://www.csafe.vic.gov.au/occupational-health-and-safety-act-and-

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tes of actice VIC attps://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: <a href="https://www.commerce.wa.gov.au/worksafe/legislation">https://www.commerce.wa.gov.au/worksafe/legislation</a>

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