

| Gas We | lding and Cutting Risk Ass | essment | |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PCE | 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 Iv. | | | |



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 hi | 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 efficive | Proceed with caution; monitor conditions. |
| 1L | Proceed, following standard operating | ng procedurer //oni | 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. Éliminate
- 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 | Lack of training, Inadequate PPE | 3H | Provide comprehensive training on equipment use and safety procedures. Ensure availability and wearing of appropriate personal Protective Equipment (PPE) such as gloves and goggles. Conduct a safety briefing before work comprehes. Ensure all safety signage is in place. Verify worker competence brane starting. Develop an emerge transportunities. Provide clear estruction and superversammoughout the task. Maintenangular transformers wear and damage before use. | 2M |
| 2. Workspace Setup | Cluttered work area coor venulation | wri | Clear to work rea of unnecessary materials and obstructions. - Enurse contilation systems are operational and effective. Place fine extinguishing equipment nearby and accessible. - Rolign space for specific tasks to avoid congestion. Organise tools and materials for easy access. - Test exhaust systems prior to start work. - Set up barriers to define working zone. - Monitor atmospheric conditions regularly. - Ensure exhausts are correctly directed away from work areas. - Keep flammable substances properly stored away from the work zone. | 2M |
| 3. Equipment Inspection | Faulty equipment, Improper gas connections | 4A | Perform pre-use checks on all equipment, ensuring hoses and valves are leak-free. Use only certified and well-maintained tools and equipment. Calibrate gauges and verify function. Check all gas connections for integrity and tightness. Replace any damaged or worn components immediately. Maintain regular logs for equipment maintenance. Ensure all safety devices are properly installed and functional. Conduct operational checks for each tool. | 2M |



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| | | | - Verify compatibility of different tools and fittings. | |
| | | | - Ensure compliance with Australian safety standards | |
| 4. Gas Cylinder Handling | Gas leaks, Cylinder falls | 4A | | 2M |
| 5. Torch Lighting | Flashback, Burns | 4A | | 2M |
| 6. Material Preparation | Sharp edges, Metal splinters | ЗН | | 2M |



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| 7. Cutting Operation | Fumes, Heat exposure | 4A | | 2M |
| 8. Weld Operation | Sparks, Ultraviolet radia | 4A | | 2M |
| 9. Post-Work Inspection | Residual heat, Material instability | 3Н | | 1L |



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| 10. Immediate Area Clearance | Trip hazards, Falling materials | ЗН | | 1L |
| 11. Worker Debrief | Miscommunication, Fatigue-related errors | 3H | | 1 L |



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| 12. Tool Maintenance | Improper storage, Wear and tear | ЗН | | 1L |
| 13. Safety Review | Unaddressed risk, Inad | 21 | | 1L |
| 14. Training Updates | Outdated information, Insufficient skills | ЗН | | 1L |



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| 15. Stakeholder Engagement | Internal conflict, Lack of clarity | 2M | | 1L |
| 16. Emergency Procedures | Delayed response, Panic | 4A | | 2M |



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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

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/legislati

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

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo_place-

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_lation

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 al. Safety Act

Occupational Health and Infety gulations 2017

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

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les on actice VI atps://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