

| Installing Or | Altering Gas Systems Risk | Assessment (| |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | <u>'</u> | | |
| 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 | | | |

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 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. 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 RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL RISK |
| 1. Preparation | Inadequate training, Incorrect tools or equipment | 3H | - Train workers in safe working procedures and handling of tools - Ensure all tools and equipment are tested and a good working order - Conduct safety induction for new personin - Regularly review training materials and update as a cessary - Equip workers with necessary PPE such as global and eye meetion - Confirm workers understand approject specifications as asafety responsibilities - Ensure adequate uppersonn is an illable during work - Implemental ermit-to-work system or gas a sallations - Estation a communication plan for energencies - Results anauthour appersonnel from the work area | 2M |
| 2. Site Assessment | Unstable structures, Environmental hazards | 31 | - Condulator ough sucinspection prior to commencing work - centify and man unstable areas or structures - Associate vironmental conditions, such as wind or rain, that may impact safety explement a site-specific risk management plan - Evisure compliance with local council regulations - Use barriers to restrict access to hazardous areas - Maintain clear and unobstructed emergency access - Document and communicate identified hazards to all personnel - Use temporary stabilization if required - Ensure proper lighting is available at the worksite | 2M |
| 3. System Decommissioning | Gas leaks, Fire or explosion | 4A | Purge all systems of gas before commencing decommissioning Isolate gas supply using valves and lock-out/tag-out systems Perform regular leak testing using gas detectors and monitoring equipment Secure and seal unused gas lines to prevent leaks Ensure all personnel are aware of evacuation procedures in case of gas leak Use intrinsically safe tools and equipment Establish a fire safety plan and ensure extinguishers are available on site Monitor gas concentrations regularly and stop work if unsafe levels are detected | 2M |



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| | | | - Maintain communication with local emergency services | |
| | | | - Train workers in emergency response and evacuation | |
| 4. Installation of New Systems | Incorrect installation, Structural damage | 3H | | 2M |
| 5. Inspection and Testing | Defective systems accorrect pressure levels | ЗН | | 2M |
| 6. Commissioning | Excessive pressure, Operational failures | 3Н | | 2M |



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| 7. Final Review and Documentation | Incomplete records, Compliance issues | 2M | | 1L |
| 8. Maintenance Planning | Neglected maintenance, Unforese breakdowns | зн | | 2M |
| 9. Training and Competency Assessment | Skill gaps, Improper handling | 3H | | 1L |



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| 10. Emergency Response Preparation | Delayed response, Improper procedures | ЗН | | 1L |
| 11. Hazardous Material Handling | Chemical exposure, Fume inhalation | ЗН | | 1 |



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| 12. Waste Management | Improper disposal, Environmental contamination | ЗН | | 1L |
| 13. Personal Protective Equipment (PPE) | Inadequate protection to st usage | 2) | | 1L |
| 14. Communication and Collaboration | Miscommunication, Uncoordinated operations | ЗН | | 1L |



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| | | | | |
| 15. Post-Installation Review | Missed defects, Overlooked compliance | 2M | | 1L |
| | • | | | |
| | 5 | | | |



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/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.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