

| Storage   | Tank Installation Risk Ass       | essment                          |                           |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name:  |                                  | ABN:                             |                           |
| Business Address:   |                                  |                                  |                           |
| Contact Person:   | Phone:                           | Ema.                             |                           |
|   |                                  |                                  |                           |
| THIS RISK ASSESSM   | 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 Iv   |                                  |                                  |                           |

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 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 predesign the activity before proceeding. A Safe Work |
|----|---|
|    | Method Statement (SWMS) or hit er-level authorisation is required.  |
| 3H | Review and approve additional controls to the last arts. Senior supervisor sign-off needed.                 |
| 2M | Ensure all nominated controls are in prace and efficiency roceed with caution; monitor conditions.          |
| 1L | Proceed, following standard operating procedures. Monitor 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                 |
| ivioderate    | 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
- 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           | Inadequate site assessment, Insufficient resource allocation | 3H              | - Conduct a thorough site assessment to identify allow tential hazards - Develop a detailed project plan with timeline corresource allocation - Ensure communication with all stakehold on its clear and concise - Check weather conditions to avoid any environment impact - Train all personnel on emergency procedures - Include contingency plans in once of unexpected so not - Verify all requires commond approvals have been obtained - Ensure available of first all equipment and approvals have been obtained - Consist a briving session with all workers involved - Documental assessment and planning activities | 2M               |
| 2. Delivery of Equipment | Vehicle movement, Equation to damage                         | 31              | - Use competent and trued personnel to operate vehicles  - Cearly mark domery areas  - Ensure machinery and equipment is properly secured during transport  - Involvement a traffic management plan  - Use spotters to assist drivers  - Inspect equipment for damage upon arrival  - Provide adequate supervision during unloading activities  - Communicate delivery schedule with all teams involved  - Maintain clear pathways free of obstacles   | 2M               |
| 3. Excavation            | Collapse of excavation, Striking underground services        | 4A              | - Conduct a detailed underground utility check before commencing work - Shore up or bench excavation sides - Use proper signage and barricades around the site - Ensure workers use proper personal protective equipment (PPE) - Conduct daily inspections of the excavation - Provide training on excavation safety to workers - Use qualified personnel for excavation tasks - Monitor weather conditions regularly  | 3H               |



| 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 |
|                              |  |                 | - Keep unauthorized personnel out of the excavation area               |                  |
|                              |  |                 | - Maintain communications between excavator operators and spotters     |                  |
| 4. Foundation<br>Preparation | Poor soil stability, Inadequate drainage | 3H              |  | 2M               |
| 5. Tank Positioning          | Tank tipping over correct placement      | 4A              |  | 3H               |
| 6. Securing the Tank         | Improper bolting, Slippage of materials  | 3Н              |  | 2M               |



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|--------------------------------|---|-----------------|--|------------------|
| 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. Internal Tank<br>Inspection | Confined space entry, Toxic fume inhalation | 4A              |  | 3H               |
| 8. Piping and<br>Connections   | Leakages, Pressur                           | ВН              |  | 2M               |
| 9. Electrical Works            | Electrical shock, Short circuits            | 4A              |  | 3Н               |



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|-------------------------------------|--|-----------------|--|------------------|
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|                                     |  |                 |  |                  |
| 10. Corrosion<br>Protection         | Chemical exposure, Surface damage                        | зн              |  | 2M               |
| 11. Safety Signage and<br>Labelling | Inadequate warning signs,<br>Misinterpretation of labels | 2M              |  | 1L               |
| 12. Testing and<br>Commissioning    | System malfunction, Human error                          | ЗН              |  | 2M               |



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|---|--|-----------------|--|------------------|
| 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. Site Cleanup                            | Slip and trip hazards, Waste disposal issues | ЗН              |  | 2M               |
| 14. Hand over to<br>Operations              | Incomplete documentation Lack training       | 3Н              |  | 2M               |
| 15. Review and<br>Continuous<br>Improvement | Overlooked hazards, Resistance to change     | 2M              |  | 1L               |



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|                     |                        |                 |  |                  |
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|                     |                        |                 |  |                  |
|                     | 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/legislations/

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/legislation

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 Infety gulations 2017

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

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des on actice VI autros://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): <a href="https://www.safeworkaustralia.gov.au/law-and-regulation">https://www.safeworkaustralia.gov.au/law-and-regulation</a> Model Codes of Practice: <a href="https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice">https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice</a>

#### **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