

| Diesel  | Fume Exposure Risk Asse          | ssment                           |                           |
|---|----------------------------------|----------------------------------|---------------------------|
| 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   |                                  |                                  |                           |



#### **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.



3

| 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 PPE, Lack of training     | ЗН              | Provide sufficient training for diesel fume awareness.  Ensure all workers have access to appropriate to a Conduct regular safety meetings to update torkers on be appractices.  Develop a safety plan specific to diesel fume to ost.  Display clear signage in areas where diesel fume to represent.  Regularly review and update in passessments and of et co.ans.  Engage a qualifier of the assumble to assess diesel fume risks.  Keep emerging y contact lie update and visual.  Ensured II equipment is countained and corking properly.  Imple the arreport assystem for any concerns regarding diesel fume exposure. | 2M               |
| 2. Fuel Transfer       | Spills, Fume release                 | 32              | Conduct egus sinspections of fuel tanks and transfer equipment  Leaving Still kits a readily available and accessible  Place are asys beneath fuel transfer areas to catch spills  Inhement proper grounding techniques to prevent static buildup  Train workers on proper transfer procedures to minimise spills  Establish emergency procedures for spills and fume releases  Utilise mechanical transfer systems to reduce human error  Install adequate ventilation systems in fuel transfer areas  Regularly monitor air quality during fuel transfer operations  Ensure proper sealing of all hose and pipe fittings     | 1L               |
| 3. Equipment Operation | Exhaust exposure, Mechanical failure | 4A              | Ensure regular maintenance of all equipment to prevent failures  Add exhaust ventilation systems close to work areas Install catalytic converters on diesel engines where applicable Schedule regular air quality testing Rotate personnel to limit individual exposure times Provide workers with portable PPE when working in high fume areas Use only equipment that meets Australian emissions standards Conduct pre-start equipment inspections to identify issues  | 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 |
|   |   |                 | Establish a maintenance log to track all equipment service             |                  |
|   |   |                 | Train operators on the impact of exhaust exposure and mitigation       |                  |
| 4. Ventilation<br>Management                  | Inadequate ventilation, Concentrated fume pockets | 4A              |  | 1L               |
| 5. Work Area<br>Monitoring                    | Accumulation of funes, Undetected leaks           | ЗН              |  | 1L               |
| 6. Personal Protective<br>Equipment (PPE) Use | Improper use, Inadequate protection               | ЗН              |  | 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. Emergency Planning            | Delayed response, Incorrect procedures | 4A              |  | 2M               |
| 8. Worker Health<br>Surveillance | Health deterioration Undet conditions  | ЗН              |  | 1L               |
| 9. Training and<br>Competency    | Inadequate knowledge, Skill deficiency | ЗН              |  | 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 |
| 10. Maintenance and Inspection           | Equipment malfunction, Safety bypasses                      | 4A              |  | 2M               |
| 11. Environmental<br>Controls            | Poor environmental management,<br>Regulatory non-compliance | ЗН              |  | 2M               |
| 12. Contractor and<br>Visitor Management | Uninformed visitors, Non-compliance                         | 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. Signage and<br>Communication | Incorrect information, Lack of awareness   | ЗН              |  | 2M               |
| 14. Incident<br>Investigation    | Repeat incidents, Poor in the state of the s | ЗН              |  | 1L               |
| 15. Routine Policy<br>Review     | Outdated procedures, Non-compliance  | 2M              |  | 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 | RESIDUA<br>RISK |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
| 6. Community<br>Relations | Community complaints, Negative perceptions | 2M              |  | 1L              |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |
|                           |  |                 |  |                 |



#### **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/legislatide

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

#### **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.csafe.vic.gov.au/occupational-health-and-safety-act-and-

gulat

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