

| Ultralow Ten | perature Refrigeration Ris | k Assessment | |
|--|----------------------------------|----------------------------------|----------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Emai | |
| | | | |
| THIS RISK ASSESS | MENT IS APPROVED BY THE PC | BU ON PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts. | person conducting a busine or ur | ndertaking PCBU required to ensu | ire that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| CLY | | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project New | | | |



| | | | | F | RISK MATRIX | | | |
|--|---|---------------------|---------------------------------------|--|---|---|--|--|
| LIKELIHOOD | INSIGNIFICANT | MINOR | MODERATE MA | JOR CATASTROPH | | | HIERARCHY OF CONTROLS | |
| ALMOST CERTAIN | 3 HIGH | 3 HIGH | | 4 4 JTE ACUTE | SCORE | ACTION | Elimination Remove the hazard. | |
| LIKELY | 2 MODERATE | 3 HIGH | U U U U U U U U U U U U U U U U U U U | 4 4 JTE ACUTE | 4A ACUTE | DO NOT PROCEED | Substitution Replace the hazard. Isolation | |
| POSSIBLE | 1 LOW | 2 MODERATE | | 4 JTE ACUTE | 3H HIGH | Rev before work art | Isolate People from the hazard Engineering Isolate the | |
| UNLIKELY | 1 LOW | 1 LOW | | 3 Z GH ACU E | MC RATE | Ensure control measures in place. | Activité istrativ e Chang | |
| RARE | 1 LOW | 1 LOW | | 3 GH H. 1 | 1L LOW | Monitor and keep records. | PP | |
| A Stop work. The risk is intolerable, cominate the hazarc predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic vis required. 3H Review and approve additional controls the proceed with caution; monitor conditions. 2M Ensure all nominated controls are imprace and efficience of with caution; monitor conditions. 1L Proceed, following standard operating procedurer Monitor and keep records. Consequence Scale: | | | | | | | Notes on Hierarchy of Controls: Remember to apply controls in the preferred order shown by the coloured pyramid: 1. Eliminate 2. Substitute 3. Isolate 4. Engineering 5. Administrative 6. PPE | |
| Consequence | | injury/illness) | Project / Ass | Significant regula | pliance / Reputat | | Always document why a lower-order control is accepted if | |
| Catastrophic Major | Fatality or perma Serious injury/illr days) | | | wn prosecution | Significant regulator intervention; criminal prosecution Improvement notice; major media coverage | | elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at | |
| Moderate | Medical-treatmen | nt injury; lost-tim | e > 1 moderate dela | y Minor breach; ad | Minor breach; adverse client comment | | work (2023) and ISO 45001:2018 clauses 6–8. | |
| Minor | First-aid only, no | lost time | negligible dela | y Isolated non-con | formance | | | |
| | | | no schedule | Deviation caught and corrected on site | | | | |



| 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 | slip hazards, manual handling injuries | ЗН | Ensure floor is clean and dry before commencing work. Provide training on correct manual handling trainiques. Use signage to warn of potential slip hazars. Schedule regular cleaning intervals to maintum floor cleanliness. Ensure all personnel wear appropriate non-slip untwear. Conduct a pre-operational churchist to identify hazars. Store equipment and manual a poerly to prevent trapping. Limit the work of objects to be more dimensionly. Use schedule regulate conting heavy news. Ensure all personnel wear appropriate non-slip untwear. | 2M |
| 2. Transporting Refrigeration Unit | equipment falls, vehicle states | 4 | Use source waps an extures when transporting equipment. Use source waps an extures when transporting equipment. Use source website is operated by a licensed and trained driver. Use appropriate loading and unloading equipment. Conduct pre-transport checks to ensure secure load. Implement a journey management plan. Coordinate with traffic management personnel if needed. Provide drivers with rest to prevent fatigue. Use spotters when moving heavy equipment to and from the vehicle. | 2M |
| 3. Installation | electric shock, entrapment | 4A | Turn off and lock out energy sources before commencing work. Use a licensed electrician for electrical connections. Ensure clear communication during installation. Use tools and equipment correctly and safely. Wear insulating gloves and footwear when handling electrical components. Follow manufacturer's installation instructions meticulously. Maintain clear access and egress routes. Install safety barriers to prevent personnel from entering danger zones. | 2M |



| 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 |
| | | | - Use personal protective equipment (PPE) such as overalls and safety glasses. | |
| | | | - Conduct regular training sessions on entrapment prevention procedures. | |
| 4. Testing | overpressure release, noise exposure | ЗН | | 2M |
| 5. Operation | frostbite, cold bur | 4A | | 2M |
| 6. Maintenance | chemical exposure, hot surface contact | ЗH | | 1L |

Version 2.5



| 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 |
| 7. Decommissioning | asbestos exposure, falling objects | 4A | | 2M |
| 8. Storage of Refrigerants | environmental spill, fire bozard | 4A | | 2М |
| 9. Emergency Procedures | panic, incorrect response | ЗН | | 1L |

Version 2.5



| 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 |
| 10. Disposal of Waste | contamination, infectious exposure | ЗН | | 1L |
| 11. Personnel Training | lack of competency, noncompliance | ЗН | | 1L |



| 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 |
| 12. Risk Monitoring and Review | outdated risk assessments, unidentified hazards | ЗН | | 1L |
| 13. Access Control | unauthorised access, security breache | ЗН | | 1L |
| 14. Communications | miscommunications, information overload | ЗН | | 1L |

Version 2.5



| 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 |
| | | | | |
| 15. Record Keeping | inaccurate records, data loss | ЗН | | 1L |
| | | | | |
| | S | | | |



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 R | EFERENCES |
|---|---|
| RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG | ISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE |
| Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u> | Victoria Occupational Health and Safety Act and 4 Occupational Health and Safety Act and 4 Occupational Health and Safety Subject Safety Safet |
| New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: <u>https://www.safework.nsw.gov.au/legal-obligations/legislati</u> Codes of Practice NSW: <u>https://www.safework.nsw.gov.au/resource-library/lis</u> | Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u> |
| Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formered-resources/compliance/workplace-serve-laws</u> | Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u> |
| South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legulation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_daces/codes-of-practice#COPs</u> | 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 |
| 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 | 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 |
| Details of permits, licenses or access required by regulatory bodies (add or delete as required): Permits from local council Authorisation to commence 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 |

- Any required documents.