

| Radiator Re | pair And Maintenance Risk | Assessment | |
|--|----------------------------------|----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PC | BU ON W PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a is 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 PRI. CIL L. CO. TRACTOR I | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project In | | | |



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 | Manual handling injury, Slips, trips, and falls | 3H | Complete a manual handling assessment before starting work Ensure work area is clean and dry Use appropriate personal protective equiple at (PPE) such as gloves and non-slip footwear Conduct a pre-start safety briefing with the work ter Ensure adequate lighting in the work area Keep tools and equipment properly stored when no cour Use barriers or size to do not too affic away from work area Follow correctorocedures to lifting and carrie or items Keep to Ikways see of contacles and doors Review to sergence occedures with all team members | 2M |
| Isolate radiator system | Electrocution, Uncontrolled release of fluids | | Ensure the ratio for system is switched off and disconnected from power solocks it/tage procedures on all relevant equipment. Releases assure from the radiator before working on it stify isolation with the use of appropriate testing equipment. Wear insulated gloves and other necessary PPE. Identify and follow isolation and shut-down procedures specific to the site. Notify all relevant personnel about the isolation. Clearly label isolated equipment to prevent accidental re-energisation. Ensure isolation is complete before commencing work. Document isolation process as per company procedures. | 2M |
| 3. Drain radiator system | Exposure to hot fluids, Chemical exposure | 4A | Allow system to cool before beginning draining process Use appropriate PPE, including face shield and chemical-resistant gloves Set up catch basins or drip pans to contain fluid Follow MSDS guidelines for handling and disposal of radiator fluids Ensure there is adequate ventilation in the work area Use spill containment kits in the event of a leak or spillage Flush system with water prior to draining to reduce chemical exposure Properly seal and label containers for used fluids | 2M |



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| | | | Dispose of fluids according to local regulations | |
| | | | Train workers in chemical spill response | |
| 4. Remove radiator | Strains and sprains, Falling objects | ЗН | | 1L |
| 5. Inspect radiator | Exposure to sharp dges, Duet inhalation | ЗН | | 2M |
| 6. Repair leaks | Chemical exposure, Burn risk | 4A | | 2M |



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| 7. Replace components | Strains from improper handling, Installation of faulty components | ЗН | | 1L |
| 8. Reassemble radiator | Pinch injuries, Incorrect assembly | ЗН | | 2M |
| 9. Pressure test | High pressure release, Equipment malfunction | 4A | | 2M |



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| 10. Refill and bleed system | Airlock, Overfilling | ЗН | | 1L |
| 11. Final inspection | Overlooked defects, Inarlaquate performance testing | ЗН | | 1L |
| 12. Clean-up work area | Slips, trips, and falls, Disposal of hazardous materials | ЗН | | 1L |



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| | | | | |
| 13. Reconnect power | Electrical shock, Equipment start-up hazards | 4A | | 2M |
| 14. Commission system | Operational errors, Unexpected equipment failure | ЗН | | 1L |
| 15. Debrief and report | Incomplete records, Lack of information dissemination | ЗН | | 1L |

Review Date:



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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

 $\underline{\textbf{Legislation QLD:}} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}}$

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 codes-of ractions of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractions-of-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 at Safety Act 34

Occupational Health and afety gulations 2017

Legis on VIC: https://www.csafe.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