

| Spectrui | m Discharge Tube Risk Ass | sessment | |
|---|----------------------------------|----------------------------------|---------------------------|
| 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 PCBL required to ensu | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CLY | 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 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 RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL RISK |
| 1. Preparation | electrical shock, glass breakage | ЗН | Ensure work area is clean and dry Use insulated tools Wear rubber-soled shoes Inspect tools for damage Check for visible damage to tobes Verify power supply is off before starting Ensure adequate a range Use non-slip for mats Avoid charing to se clothing Conduction by safe analysis | 2M |
| 2. Personal Protective Equipment | inadequate PPE, impressinge | 31 | Wear all ropin to PPE isluding gloves and goggles Loure File is properly fitted Verify Plats undamaged Louvide training on PPE use Have a PPE inspection checklist Replace damaged PPE immediately Ensure PPE storage is accessible Regular PPE maintenance Conduct PPE compliance checks Ensure PPE is fire-resistant where necessary | 2M |
| 3. Equipment Inspection | equipment failure, incorrect setup | ЗН | Inspect equipment before use Use equipment as per manufacturer guidelines Calibrate equipment regularly Label faulty equipment clearly Maintain equipment according to schedule Store equipment properly Ensure equipment is appropriate for task Document equipment inspections | 2M |



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|------------------------------|-----------------------------------|-----------------|--|------------------|
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| | | | Conduct regular safety audits | |
| | | | Train staff in equipment inspection | |
| 4. Tube Installation | glass breakage, chemical exposure | 4A | | 3Н |
| 5. Electrical Connections | electrical shock, so rt circuits | 4A | | ЗН |
| 6. Pressure Testing | overpressure, explosive rupture | 4A | | ЗН |



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|------------------------|---|-----------------|--|------------------|
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| 7. Initial Energising | unexpected discharge, equipment failure | 4A | | ЗН |
| 8. Observing Discharge | intense light expos | JA | | 3H |
| 9. Shutting Down | residual charge, hot surfaces | ЗН | | 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 |
| | | | | |
| 10. Maintenance | residual voltage, sharp edges | 3Н | | 2M |
| 11. Emergency Procedures | undetected faults, incomplete response | ЗН | | 2M |
| 12. Documentation | data inaccuracy, loss of records | 2M | | 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 |
| 13. Waste Disposal | chemical exposure, incorrect disposal | зн | | 2M |
| 14. Communication | miscommunication, lack information | 2M | | 1L |
| 15. Training | insufficient training, skill gaps | ЗН | | 2M |



| JOB STEP | POTENTIAL HAZARDS | IR | CONTROL MEASURES | RR |
|--------------------|------------------------|-----------------|--|-----------------|
| PECIFIC WORK STEPS | HAZARDS THAT MAY ARISE | INITIAL RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUA RISK |
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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

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): 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