

| High Voltage | Switchgear Operation Risk | k Assessment | |
|--|----------------------------------|---------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema* | |
| | | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PCE | BU OF THE PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts. | person conducting a busine or un | dertaking PCBL required to ensu | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CLI | 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 | | | |



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 | inadequate training, inadequate personal protective equipment (PPE) | 3H | - Conduct thorough training sessions on high voltage affety. - Ensure all personnel have completed requirer competency certifications. - Review and update training records regular of the service of electrical tasks. - Ensure all PPE is in good condition and appropriate of electrical tasks. - Regular safety briefings to reinforce safety protectly. - Clearly define roles and responsibilities for each to the recorder. - Conduct a pre-of task of a PPE of ore the shift begins. - Ensure the describility of rest aid to on-size. - Estatish an energene contact processore. - Make is an fire exaguishers are available and maintained. | 2M |
| 2. Checking Tools and Equipment | faulty tools, unmaintain to ioment | 31 | Implement a ugular resintenance schedule for all tools. Inniduc pre-use inspections on all tools and equipment. Maincaston inventory log with tool conditions documented. Insure testing and tagging of electrical tools are up to date. Isolate faulty equipment immediately and tag for repair. Use non-conductive tools for electrical tasks. Assign a team member responsible for tool audits. Provide training on the proper use of equipment. Encourage reporting of any tool malfunctions promptly. Conduct random audits on equipment compliance. | 2M |
| 3. Site Inspection | trip hazards, unidentified live parts | 3H | Conduct a comprehensive walk-through to identify potential hazards. Ensure proper signage for live electrical areas. Remove any tripping hazards promptly. Verify that all live parts are appropriately labelled. Implement boundary markers around high voltage areas. Ensure clear access and egress paths are maintained. Keep work area organised and free of unnecessary clutter. Designate a spotter to assist with identifying live parts. | 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 barricades to protect against accidental contact. | |
| | | | - Conduct daily site inspection reports. | |
| 4. Lock-out Tag-out | failure to de-energise, incorrect tagging procedures | 4A | | 2M |
| 5. Hazard Identification and Risk Assessment | incomplete assessments, undetected hazards | 4A | | 2M |
| 6. Communication and Coordination | miscommunication, poor task coordination | 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 |
| 7. Access Control | unauthorised access, security breaches | зн | | 1L |
| 8. Electrical Work | electric shock, arc | JA | | 2M |
| 9. Monitoring and Testing | misinterpretation of data, faulty test equipment | 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. Environmental Hazards | water ingress, contamination | 3Н | | 2M |
| 11. Emergency Response | delayed response, untrained person | 4A | | 2M |
| 12. Work Permit System | unauthorised work, incomplete permits | ЗН | | 1L |



7

| 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. Housekeeping | clutter, improper disposal of materials | ЗН | | 1L |
| 14. Supervision and Oversight | insufficient oversight, not the control of | ЗН | | 2M |
| 15. Shutdown and Maintenance | accidental re-energisation, inadequate isolation | 4A | | 2M |



| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE | INITIAL RISK | | DEOIDLIAL |
|---------------------|------------------------|-----------------|--|------------------|
| | | KISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL RISK |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



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

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

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

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

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.wksafe.vic.gov.au/occupational-health-and-safety-act-and-

gulat

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