

## Risk Of Impalement From Steel Bars Risk Assessment

|                   |        |        |
|-------------------|--------|--------|
| Business Name:    | ABN:   |        |
| Business Address: |        |        |
| Contact Person:   | Phone: | Email: |

## THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

|            |        |       |
|------------|--------|-------|
| Full Name: |        |       |
| Signature: | Title: | Date: |

## CLIENT OR PRINCIPAL CONTRACTOR DETAILS

|   |                |
|---|----------------|
| Client:   | SCOPE OF WORKS |
| Project Name:                                     |                |
| Project Address:                                  |                |
| Project Manager:                                  |                |
| Contact Phone:                                    |                |
| Date Risk Assessment supplied to Project Manager: |                |

| RISK MATRIX    |               |               |               |            |              |                |                                   |   |  |
|----------------|---------------|---------------|---------------|------------|--------------|----------------|-----------------------------------|---|--|
| LIKELIHOOD     | INSIGNIFICANT | MINOR         | MODERATE      | MAJOR      | CATASTROPHIC | SCORE          | ACTION                            | HIERARCHY OF CONTROLS                       |  |
| ALMOST CERTAIN | 3<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE    | 4<br>ACUTE | 4<br>ACUTE   |                |                                   | <b>Elimination</b><br>Remove the hazard.    |  |
| LIKELY         | 2<br>MODERATE | 3<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 4A<br>ACUTE    | DO NOT PROCEED                    | <b>Substitution</b><br>Replace the hazard.  |  |
| POSSIBLE       | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 3H<br>HIGH     | Review before work starts.        | Isolation<br>Isolate People from the hazard |  |
| UNLIKELY       | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 4<br>ACUTE   | 2M<br>MODERATE | Ensure control measures in place. | <b>Engineering</b><br>Isolate the hazard    |  |
| RARE           | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 3<br>HIGH    | 1L<br>LOW      | Monitor and keep records.         | <b>Administrative</b><br>Change             |  |
|                |               |               |               |            |              |                |                                   | <b>PPE</b>                                  |  |

### Risk Rating & Required Action:

|    |   |
|----|---|
| 4A | Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required. |
| 3H | Review and approve additional controls before task starts. Senior supervisor sign-off needed.   |
| 2M | Ensure all nominated controls are in place and effective. Proceed 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                 |
| 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:

- Eliminate**
- Substitute
- Isolate
- Engineering
- Administrative
- 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. Site Inspection       | Uneven ground surfaces, Unsecured steel bars                             | 3H           | <ul style="list-style-type: none"> <li>- Conduct a preliminary site walk-through to identify potential hazards.</li> <li>- Clearly mark uneven surfaces with cones or tape.</li> <li>- Ensure all steel bars are stacked securely before the work starts.</li> <li>- Assign a site safety officer to oversee hazard identification.</li> <li>- Prevent unauthorized personnel from accessing the work zone.</li> <li>- Provide supervisors with checklists for hazard identification.</li> <li>- Use signage to warn about potential trip hazards.</li> <li>- Regularly monitor bar stacking methods for safety compliance.</li> <li>- Train workers on the importance of reporting hazards.</li> <li>- Develop a hazard reporting process.</li> </ul> | 2M            |
| 2. Delivery of Materials | Falling materials from delivery truck, Loose steel bars during unloading | 3H           | <ul style="list-style-type: none"> <li>- Use trained personnel for unloading operations.</li> <li>- Implement a standard unloading procedure.</li> <li>- Require the use of appropriate PPE such as helmets and gloves.</li> <li>- Clear and secure the unloading area prior to delivery.</li> <li>- Use mechanical aids where possible to minimize manual handling.</li> <li>- Secure bars with appropriate strapping during transport.</li> <li>- Inspect delivery trucks for safe loading and unloading facilities.</li> <li>- Post signage warning of delivery operations.</li> <li>- Allow only trained personnel in the delivery zone during operations.</li> <li>- Have emergency stop procedures in place.</li> </ul>                          | 2M            |
| 3. Storage of Steel Bars | Improper stacking leading to collapse, Unmarked storage areas            | 4A           | <ul style="list-style-type: none"> <li>- Designate specific areas for steel bar storage.</li> <li>- Implement a color-coded tagging system for different storage areas.</li> <li>- Enforce proper stacking techniques and monitor compliance.</li> <li>- Conduct regular inspections of storage practices.</li> <li>- Conduct training on storage safety techniques for relevant workers.</li> <li>- Use barriers or fencing around storage areas.</li> <li>- Ensure signage is displayed to indicate safe storage height limits.</li> <li>- Use dunnage to support layers and avoid direct ground contact.</li> </ul>   | 2M            |

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|   |  |              | <ul style="list-style-type: none"> <li>- Have a site plan that includes storage locations for easy access in emergencies.</li> <li>- Limit the height of stacked materials to safe levels.</li> </ul> |               |
| 4. Preparation of Work Area                   | Insufficient lighting, Presence of obstacles                                 | 2M           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> | 1L            |
| 5. Worker Training                            | Inadequate knowledge of potential hazards, Improper work techniques          | 3H           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>                   | 1L            |
| 6. Use of Personal Protective Equipment (PPE) | Physical injuries from inadequate protection, Failure to use PPE effectively | 2M           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>   | 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. Inspection and Maintenance of Tools | Faulty tools causing injury, Improper tool use               | 2M           |  | 1L            |
| 8. Lifting and Moving Steel Bars       | Strains and sprains from improper lifting, Crushing injuries | 3H           |  | 2M            |
| 9. Securing Work Area                  | Unauthorized access, Unmarked hazards                        | 3H           |  | 2M            |

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|----------------------------------|--|--------------|---|---------------|
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|                                  |  |              | <div></div> <div></div> <div></div> <div></div> <div></div>   |               |
| 10. Emergency Procedures         | Inadequate emergency response, Delayed first aid provision             | 3H           | <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> | 1L            |
| 11. Handling and Using Fasteners | Impalement injuries from mishandling, Loose fasteners creating hazards | 2M           | <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> | 1L            |
| 12. Debris Management            | Tripping over debris, Inadequate disposal leading to obstructions      | 3H           | <div></div> <div></div> <div></div>   | 1L            |

[illegible]

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|                     |                        |              | <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> |               |
|                     |                        |              |   |               |

SAMPLE



## 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 IF ANY STATE THAT 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>

### Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-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/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-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>

### Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-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

### 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/workplaces/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.