

| Mc  | ould Casting Risk Assessm        | ent   |                           |
|---|----------------------------------|---|---------------------------|
| 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 pis prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBL <sup>1</sup> 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 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 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 hime       | 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 effective    | Proceed with caution; monitor conditions.            |
| 1L | Proceed, following standard operating | ig procedure // Ion    | 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<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS   | RESIDUAL<br>RISK |
| 1. Preparation      | slips due to water on the floor, injuries from improper lifting methods | 3H              | <ul> <li>Ensure floors are dry and free from spills before stating.</li> <li>Use proper lifting techniques and mechanical to s.</li> <li>Conduct regular housekeeping checks.</li> <li>Train staff on safe lifting practices.</li> <li>Provide PPE, including non-Nip shoes.</li> <li>Display warning signage indicting wet floors.</li> <li>Schedule regular carry or hnique rainings.</li> <li>Use approprietely trained proposes in head wits.</li> <li>Keep work are no organized to prevent up hazards.</li> <li>Ensure as spills and cleaned immediately.</li> </ul>   | 2M               |
| 2. Mould Inspection | exposure to sharp mould odges, dust inhalation                          | 31              | <ul> <li>Use a result glow to handle moulds.</li> <li>Use the result of the provided and th</li></ul> | 2M               |
| 3. Mixing Materials | chemical exposure, skin irritation                                      | 4A              | <ul> <li>Use chemical-resistant gloves and eyewear.</li> <li>Follow correct chemical storage practices.</li> <li>Implement proper ventilation systems.</li> <li>Provide emergency showers and eyewash stations.</li> <li>Offer regular training on safe chemical handling.</li> <li>Develop and use safety data sheets (SDS) for all chemicals.</li> <li>Ensure all containers are correctly labelled.</li> <li>Train workers in first aid responses to chemical exposure.</li> </ul>  | 2M               |



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| JOB STEP            | POTENTIAL HAZARDS                                 | IR              | CONTROL MEASURES   | RR               |
|---------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE                            | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                     |   |                 | - Use automated mixing systems to reduce manual handling.              |                  |
|                     |   |                 | - Conduct regular audits of mixing equipment and protective gear.      |                  |
| 4. Mould Filling    | spills leading to slips, burns from hot materials | 3H              |  | 1L               |
| 5. Curing Process   | exposure to fume theat exposure                   | 4A              |  | 2M               |
| 6. Pattern Removal  | pinch points, manual handling injuries            | ЗН              |  | 2M               |



| JOB STEP                        | POTENTIAL HAZARDS                                       | IR              | CONTROL MEASURES   | RR               |
|---------------------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS             | HAZARDS THAT MAY ARISE                                  | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                                 |   |                 |  |                  |
| 7. Mould Cleaning               | dust inhalation, contact with cleaning chemicals        | 3H              |  | 1L               |
| 8. Quality Inspection           | repetitive strain inju                                  | ₽M              |  | 1L               |
| 9. Finished Product<br>Handling | manual handling injuries, crush injuries from equipment | ЗН              |  | 2M               |



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|---------------------|--|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE                                 | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                     |  |                 |  |                  |
| 10. Storage         | falls from stacks, unsecured items leading to collapse | зн              |  | 2M               |
| 11. Waste Disposal  | chemical exposure, waste spillage                      | 4A              |  | 2M               |
| 12. Maintenance     | electric shock, maintenance equipment malfunction      | 4A              |  | 2M               |



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| JOB STEP                    | POTENTIAL HAZARDS   | IR              | CONTROL MEASURES   | RR               |
|-----------------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS         | HAZARDS THAT MAY ARISE  | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
| 13. Staff Training          | inadequate training leading to increased risk, miscommunication | 3H              |  | 1L               |
| 14. Emergency<br>Procedures | panic in emergencies, untested emergency equipment              | 4A              |  | 2M               |
| 15. Record Keeping          | loss of critical safety information, inaccurate reporting       | 2M              |  | 1L               |



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|---------------------|------------------------|-----------------|--|-----------------|
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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

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

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/legislati

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 2011

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

Occupational Health and affety gulations 2017

Legis on VIC: https://www.safe.vic.gov.au/occupational-health-and-safety-act-and-

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tes of actice VIC attps://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