

| Metal Tub   | e Bending Machine Risk A         | ssessment                        |                           |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name:  |                                  | ABN:                             |                           |
| Business Address:   |                                  |                                  |                           |
| Contact Person:   | Phone:                           | Ema.                             |                           |
|   |                                  |                                  |                           |
| THIS RISK ASSESSI   | MENT IS APPROVED BY THE PCI      | 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 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 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<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS   | RESIDUAL<br>RISK |
| 1. Preparation       | slips and trips, manual handling injuries       | 3H              | <ul> <li>Ensure all pathways are clear of obstacles.</li> <li>Provide proper lighting in the work area.</li> <li>Use mechanical aids for transporting maturals.</li> <li>Conduct manual handling training for all works.</li> <li>Inspect floors for any wet orbity spots.</li> <li>Ensure workers wear appropriate non-slip footwea.</li> <li>Store equipment for more itals smally to prevent tripping.</li> <li>Maintain go chousekeep a practice.</li> <li>Clear mark to pathway and exits.</li> <li>Encurse proporting techniques.</li> </ul>   | 2M               |
| 2. Machine Setup     | pinch points, electrical                        | 31              | <ul> <li>Use lo route nout presidures during setup.</li> <li>Lain we kers a pinching hazards and safe distancing.</li> <li>Use a seted tools and wear rubber-soled shoes.</li> <li>Lerify all power connections are intact and secure.</li> <li>Exsure machine guards are in place and functioning.</li> <li>Clearly label all electrical components.</li> <li>Conduct regular electrical safety checks.</li> <li>Ensure only qualified personnel perform electrical work.</li> <li>Provide personal protective equipment (PPE) such as gloves and eye protection.</li> <li>Conduct routine inspections of the machine setup.</li> </ul> | 1L               |
| 3. Loading Materials | manual handling injuries, dropping<br>materials | ЗН              | <ul> <li>Use lifting equipment where possible.</li> <li>Offer training on correct lifting techniques.</li> <li>Provide gloves with good grip to handle materials.</li> <li>Ensure team lifting for heavy or awkward loads.</li> <li>Keep work areas uncluttered and organized.</li> <li>Define clear communication signals for team lifts.</li> <li>Assess load weight before lifting it.</li> <li>Use materials carts to transport items when feasible.</li> </ul>  | 2M               |



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|-----------------------|--------------------------------------|-----------------|--|------------------|
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|                       |                                      |                 | - Position materials at waist height to minimize bending.              |                  |
|                       |                                      |                 | - Restrict access to the loading area to trained personnel only.       |                  |
| 4. Machine Operation  | operator injury, flying debris       | 4A              |  | 2M               |
| 5. Adjusting Settings | improper machine ettings, user error | ЗН              |  | 1L               |
| 6. Machine Monitoring | equipment failure, operator fatigue  | 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. Tube Bending                | machine malfunction, material ejection | 4A              |  | 2M               |
| 8. Finished Product<br>Removal | sharp edges, poor                      | 3H              |  | 2M               |
| 9. Cleaning and<br>Maintenance | chemical exposure, slips               | ЗН              |  | 1L               |



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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. Shutdown          | unexpected startups, residual energy        | 4A              |  | <b>■</b> 1L      |
| 11. Inspection        | inadequate inspection, unidentified folts   | ЗН              |  | 1L               |
| 12. Operator Training | insufficient knowledge, incorrect practices | ЗН              |  | 1L               |



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| JOB STEP                   | POTENTIAL HAZARDS                          | IR              | CONTROL MEASURES   | RR               |
|----------------------------|--|-----------------|--|------------------|
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| 13. Emergency<br>Protocols | panic, incomplete response                 | 4A              |  | 2M               |
| 14. Regular Auditing       | non-compliance, lack of                    | ЗН              |  | 2M               |
| 15. Waste Management       | chemical exposure, trip hazards from waste | 3H              |  | 2M               |



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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

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

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

#### **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/le\_lation

Codes of Practice for SA: <a href="https://www.safework.sa.gov.au/wor">https://www.safework.sa.gov.au/wor</a> 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 al. Safety Act

Occupational Health and Infety gulations 2017

Legis on VIC: https://www.csafe.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): <a href="https://www.safeworkaustralia.gov.au/law-and-regulation">https://www.safeworkaustralia.gov.au/law-and-regulation</a> Model Codes of Practice: <a href="https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice">https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice</a>

#### **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