

General Manager - Safety & Personnel

Authorised by:

### SAFETY MANAGEMENT SYSTEM

# **Plant and Equipment Risk Assessment**

	Hired From All Master Hire Stores		Pro	ps - All Sizes		Approved By:	Steven Jose	
Equipment Location:		Equipment:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Signature:	fr-	
		Manufacturer Details	Various					
Hazard		Action Require Yes/No		Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treatment (Complete Hazard Treatment)		Risk Level after Risk Treatment (Refer to risk matrix)
Entanglemen								
Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?		⊠ Yes □ No		LOW	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     □ PPE	Obey all warning de	Follow manufacturers' instructions Obey all warning decals Keep clear of adjusting thread and pin	
Crushing								•
Can anyone be Materia Uncontri load? Lack of immobil The pla Parts of Coming testing, Being the	nt tipping or rolling over? The plant collapsing? In contact with moving parts of the plant during inspection, use, maintenance, cleaning or repair arown off or under the plant? Tapped between the plant and materials or fixed es?			НІСН	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     □ PPE	stable surface (may rated – check with e Ensure exclusion zo correctly and free o Only authorised and personnel to enter a suspended area if s	ecals rated on a flat, solid r need to be load engineer) one is set up f intruders d experienced area of set up and	MEDIUM
Cutting, Stabbing and Puncturing					<del>-</del>			
<ul><li>Coming</li><li>Coming testing, repair o</li><li>Plant, p</li></ul>	cut, stabbed or punctured due to? in contact with sharp or flying objects? in contact with moving parts of the plant during inspection, operation, maintenance, cleaning or f the plant? arts of the plant or work pieces disintegrating? eces being ejected?	☐ Yes ⊠ No		MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacture Obey all warning de Ensure plant is ope stable surface (may rated – check with e Ensure exclusion zo free of intruders	ecals rated on a flat, solid r need to be load engineer)	LOW

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<ul> <li>The mobility of the plant?</li> <li>Uncontrolled or unexpected movement of the plant?</li> <li>Other factors?</li> </ul> Shearing Can anyone's body parts be:	⊠ Yes	HIGH	☐ Elimination	Do not exceed Safe Work Load of plant  Follow manufacturers' instructions	MEDIUM
<ul> <li>Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?</li> </ul>	□ No		☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Obey all warning decals Keep body parts outside moving parts areas	
Friction					
Can anyone be burnt, gain abrasions etc. due to:  Contact with moving parts or surfaces of the plant, or material handled by the plant?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Striking					
Can anyone be struck by moving objects due to:  Uncontrolled or unexpected movement of the plant or material handled by the plant?  Plant, parts of the plant or work pieces disintegrating?  Work pieces being ejected?  Mobility of the plant?  Other factors?	⊠ Yes □ No	MEDIUM	⊠ Elimination     □ Substitution     □ Isolation     ⊠ Engineering     ☑ Administration     □ PPE	Follow manufacturers' instructions Obey all warning decals Use appropriate prop/s to support elevated mechanisms when conducting inspection or maintenance Secure/restrain while transporting Ensure exclusion zone in and around vehicle while being loaded Ensure stability of load Ensure surface is stable and flat	LOW
High Pressure Fluid					
Can anyone come into contact with?  Fluids under high pressure in normal use, in the instance of plant failure?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Electrical					
<ul> <li>Can anyone be injured by electrical shock or burnt due to:</li> <li>The plant contacting live electrical conductors?</li> <li>Plant working close to electrical conductors?</li> <li>Overload of electrical circuits?</li> <li>Damaged or poorly maintenance electrical leads or cables?</li> <li>Damaged electrical switches?</li> <li>Water near electrical equipment?</li> </ul>	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all overhead/underground wiring or other obstructions have been located prior to commencing work Do not place surface of prop over/under electrical cabling/ plumbing or the like	MEDIUM

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<ul><li>Lack of isolation procedures?</li><li>Other factors</li></ul>					
Explosion					
Can anyone be injured by fuels such as gases, vapors, liquids,	☐ Yes ☑ No		☐ Elimination ☐ Substitution		
dusts or other substances being ignited triggered by the operation			☐ Isolation		
of the plant or by materials handled by the plant?			☐ Engineering ☐ Administration		
			☐ PPE		
Slipping, tripping and Falling					
Can anyone using the plant, or in the vicinity of the plant, slip, trip	⊠ Yes	MEDIUM	☐ Elimination ☐ Substitution	Follow manufacturers' instructions	LOW
or fall due to:	□ No		☐ Isolation	Obey all warning decals	
• Uneven or slippery work surfaces?			<ul><li>☑ Engineering</li><li>☑ Administration</li></ul>	Wear appropriate footwear	
<ul> <li>Poor housekeeping, such as shavings in the vicinity of the</li> </ul>				Maintain cleanliness of plant (inside	
plant, spillage not cleaned up?				and out)	
Obstacles being placed in the vicinity of the plant?				Ensure all loads and props are stable	
Other factors?				and attached securely	
High Temperature					
Can anyone:	Yes		☐ Elimination ☐ Substitution		
Come into contact with objects at high temperature?	⊠ No		☐ Isolation		
Come into contact with hot fluids?			☐ Engineering ☐ Administration		
Be injured by fire?			PPE		
Temperature and Thermal Comfort					
Can anyone suffer ill-health due to:	Yes	MEDIUM	⊠ Elimination	Follow manufacturers' instructions	LOW
Exposure to high or low temperatures?	□ No		☐ Substitution ☐ Isolation	Obey all warning decals	
Failure of air conditioning equipment?			☐ Engineering	Be aware of body responses to adverse/	
			<ul><li>☑ Administration</li><li>☐ PPE</li></ul>	extreme weather conditions (hot/cold)	
				, ,	
Suffocation					
Can anyone be suffocated due to:	⊠ Yes		<ul><li>☑ Elimination</li><li>☐ Substitution</li></ul>	Follow manufacturers' instructions	
Lack of oxygen, or atmospheric contamination?	□ No		☐ Isolation	Obey all warning decals	
			☐ Engineering	Do not leave persons or animals	
			<ul><li>☑ Administration</li><li>☑ PPE</li></ul>	unattended in confined space	
				Position and operate in well-ventilated	
				area to prevent inhaling vapours or	
				fumes	

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# **Plant and Equipment Risk Assessment**

Ergonomics	7				
Can anyone be injured due to:     Poorly designed seating?     Repetitive body movements?     Constrained body posture or the need for excessive effort?     Design deficiency causing physical or personal stress?     Inadequate or poorly placed lighting?     Lack of consideration given to human error or human behavior?     Mismatch of the plant with human traits and natural limitations?     Other factors?	⊠ Yes □ No	LOW	<ul> <li>☑ Elimination</li> <li>☐ Substitution</li> <li>☐ Isolation</li> <li>☑ Engineering</li> <li>☑ Administration</li> <li>☐ PPE</li> </ul>	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps etc.	LOW
Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Ensure equipment, attachments and sundry items are securely tied down Apply/use chocks if necessary Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle	LOW
Operational			•		•
Can anyone be injured by this equipment	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure plant/equipment is on stable ground and clear of obstructions Ensure adequate ventilation Ensure all guards and fixtures are in place Ensure appropriate PPEs are used (e.g. eye protection, hearing and footwear) Ensure hold-to-run controls provided for machine are working properly	LOW

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				Do not operate on steep slope/angles Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts	
Other Hazards  Can anyone be injured or suffer ill-health from exposure to:  Chemicals? Toxic gases or vapors? Fumes? Dust? Noise? Vibration? Radiation? Other Factors?		⊠ Yes □ No	⊠ Elimination □ Substitution □ Isolation □ Engineering □ Administration □ PPE	Follow manufacturers' instructions Obey all warning decals Position and operate in well-ventilated area to prevent inhaling vapours or fumes Check for overhead/underground utilities (gas, water, electrical) before operation Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Maintain plant/vehicle in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to equipment Ensure appropriate PPEs are used (e.g. eye protection, hearing, head and footwear)	
Further Comments:	A Specific Risk Assessment on site This equipment must only be dri		<u> </u>	ders of the appropriate license	
Checklist:	<ul> <li>         ∑ Manufacturers' manuals referenced         ∑ Copy kept in Master Hires' Risk Manage</li> </ul>	gement File			

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### **Plant and Equipment Risk Assessment**

## **Hazard / Risk Matrix**

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2
Risk Management Code of Practice 2007

**Step 1 Determine Likelihood –** What is the possibility of the event happening?

	Criteria	Description
Almost certain	Expected in most circumstances.	Event is a common problem
Likely	Will probably occur in most circumstances.	Event is known to have occurred at this site or it has happened
Possible	Might occur at some time	Event could occur at the site or I've heard of it happening
Unlikely	Could occur at some time	Event is not likely to occur at the site or I have not heard of it happening
Rare	May occur only in exceptional circumstances	Event is practically impossible.

#### Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description		
Insignificant No injuries			
Minor	First aid treatment only; spillage contained at site.		
Moderate	Medical treatment; spillage contained but with outside help.		
Major	Extensive injuries; loss of production		
Catastrophic	Death; toxic release of chemicals		

#### Step 3 Determine the risk score

	CONSEQUENCE							
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic			
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute			
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute			
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute			
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute			
Rare	1 Low	1 Low	2 Medium	3 High	3 High			

#### Step 4 Record risk score against the job sequence steps

(Note - Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: High	Highest management decision is required urgently.
2 M: Medium	Follow management instructions.
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.

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