

General Manager - Safety & Personnel

Authorised by:

## SAFETY MANAGEMENT SYSTEM

# **Plant and Equipment Risk Assessment**

	Hired From All Master Hire Stores	Equipment:	Cond	crete Scarifier	- Petrol	Approved By:	Steven Jose	
Equipment Location:		Manufacturer Details	Vario	ous		Signature:	Signature:	
Hazard		Action Require Yes/No	d	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treat Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
brushes, rags or	t air, clothing, gloves, necktie, jewellery, cleaning other materials become entangled with moving t, or materials in motion?			HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacture Obey all warning de Do not lean or reac guarded area with in Do not do any serve maintenance with in Tie loose hair up/ba Wear appropriate F	ecals h into under motor running icing or notor running	LOW
<ul> <li>Uncontrolled</li> <li>Lack of immobility</li> <li>The plar</li> <li>Parts of Coming testing,</li> <li>Being the</li> </ul>	falling off the plant? olled or unexpected movement of the plant or it capacity for the plant to be slowed, stopped or ized? nt tipping or rolling over? the plant collapsing? in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repair irown off or under the plant? apped between the plant and materials or fixed es?			MEDIUM	⊠ Elimination     □ Substitution     □ Isolation     □ Engineering     ⋈ Administration     □ PPE	Follow manufacturers' instructions Obey all warning decals Do not operate with persons (by		LOW

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# **Plant and Equipment Risk Assessment**

Cutting, Stabbing and Puncturing	]				
Can anyone be cut, stabbed or punctured due to?  Coming in contact with sharp or flying objects?  Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?  Plant, parts of the plant or work pieces disintegrating?  Work pieces being ejected?  The mobility of the plant?  Uncontrolled or unexpected movement of the plant?  Other factors?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into under guarded area with motor running Do not do any servicing or maintenance with motor running Ensure all safety guards and fixtures are in place and working correctly Before operation conduct a safety check to ensure all working pieces are under good condition Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing, hands and footwear)	LOW
Shearing				meaning, name and receivedry	
Can anyone's body parts be:  Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into cutting drum area with motor running Do not do any servicing or maintenance with motor running Avoid all protrusions from concrete surface e.g. pipes, reinforcing material etc. Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	MEDIUM
Friction				meaning and received.	
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	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not do any servicing or maintenance with motor running Allow motor and other components to cool before servicing Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW

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# **Plant and Equipment Risk Assessment**

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	HIGH	⊠ Elimination     □ Substitution     □ Isolation     ⊠ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Use prop provided to support elevated base when conducting inspection or maintenance Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	MEDIUM
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		<u> </u>			
Can anyone be injured by electrical shock or burnt due to:  The plant contacting live electrical conductors?  Plant working close to electrical conductors?  Overload of electrical circuits?  Damaged or poorly maintenance electrical leads or cables?  Damaged electrical switches?  Water near electrical equipment?  Lack of isolation procedures?  Other factors	⊠ Yes □ No	HIGH	<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 Do not operate in areas with overhead/underground wiring or other obstructions Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW
Explosion					
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure motor is turned off and allowed to cool before refuelling Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	MEDIUM

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## SAFETY MANAGEMENT SYSTEM

# **Plant and Equipment Risk Assessment**

Slipping, Tripping and Falling	]				
Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:  Uneven or slippery work surfaces?  Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up?  Obstacles being placed in the vicinity of the plant?  Other factors?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Inspect work area before operating machinery and ensure a clear work area Ensure dust and rubble is removed during grinding Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW
High Temperature					
Can anyone:  Come into contact with objects at high temperature?  Come into contact with hot fluids?  Be injured by fire?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into under guarded area with motor running Do not do any servicing or maintenance with motor running Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW
Temperature and Thermal Comfort					
Can anyone suffer ill-health due to:     Exposure to high or low temperatures?     Failure of air conditioning equipment?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Maintain normal hydration levels Exercise/stretch regularly Schedule work with climatic conditions in mind e.g. early morning or late afternoon during hot temperature days Do not operate beyond your personal capabilities Wear appropriate PPE (e.g. protection for breathing, eyes, hearing and footwear)	LOW

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# **Plant and Equipment Risk Assessment**

Suffocation					
Can anyone be suffocated due to:  Lack of oxygen, or atmospheric contamination?	⊠ Yes □ No	MEDIUM	⊠ Elimination     □ Substitution     □ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Position and operate in well ventilated place Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW
Ergonomics					
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	⊠ Elimination     □ Substitution     □ Isolation     ☑ Engineering     ☑ Administration     □ PPE	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Do not operate beyond your personal capabilities Use suitably designed and secured loading/unloading procedures Observe and use proper manual handling techniques	LOW
Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure engine and fuel is switched off Ensure equipment, attachments and sundry items are securely tied down Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using equipment where it is reasonable to foresee further risk to persons or damage to equipment Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW

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# **Plant and Equipment Risk Assessment**

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 equipment is on stable ground and clear of obstructions Ensure adequate ventilation Ensure waste is collected and disposed in compliance with applicable regulations Ensure safety gears, levers, switches etc. are engaged/disengaged appropriately before starting/operating Ensure machine is switched off before making any adjustments Do not lean or reach into cutting drum area with motor running Do not do any servicing or maintenance with motor running Avoid protrusions from concrete surface e.g. pipes, reinforcing material etc. Do not operate on steep slope Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	LOW
Other Hazards		l	l	,	I.
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	LOW	⊠ Elimination     □ Substitution     □ Isolation     ☑ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure waste is collected and disposed in compliance with applicable regulations Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Ensure appropriate system is used to control dust that may contain asbestos or silica above safe limits Use appropriate extraction unit/method and monitoring system to ensure safe air quality and disposal of waste Maintain equipment in good working order - report any malfunction or damage	LOW

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# **Plant and Equipment Risk Assessment**

		to Master Hire immediately and stop using equipment where it is reasonable to foresee further risk to persons or damage to equipment Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)					
A Specific Risk Assessment on site must	oeen undertaken prior to pl	ant operation?					
This equipment must only be driven/operated by competent persons and holders of the appropriate license							
<ul> <li>         ∑ Manufacturers' manuals referenced     </li> <li>         ∑ Copy kept in Master Hires' Risk Management I     </li> </ul>	<b>-</b> :1-						
	This equipment must only be driven/or  Manufacturers' manuals referenced						

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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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