

# **Plant and Equipment Risk Assessment**

	Hired From All Master Hire Stores			Co	ncrete Trowel I	Machine	Approved By:	Steven Jose	
Equipment Location:		Equ	ipment:				Signature:	ffr-	
			Manufacturer Details		rious				
Hazard			Action Required Yes/No	d	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treati Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement	t								
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		MEDIUM	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach over motor area with motor running Do not do any servicing or maintenance with motor running Wear appropriate PPE whilst operating this machine Do not remove guards		LOW	
Crushing						-			
Can anyone be crushed due to:  Material falling off the plant?  Uncontrolled or unexpected movement of the plant or its load?  Lack of capacity for the plant to be slowed, stopped or immobilized?  The plant tipping or rolling over?  Parts of the plant collapsing?  Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair?  Being thrown off or under the plant?  Being trapped between the plant and materials or fixed structures?  Other factors?		⊠ Yes □ No		MEDIUM	⊠ Elimination     □ Substitution     □ Isolation     ⊠ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure travel of moving machine (forward or reversing) is free of all personnel except operator Ensure both the machine and the operator are stable – use on flat level surface Do not operate the machine unless all protective guards are in place Keep hands and feet clear of rotating and moving parts as they will cause injury if contacted Ensure centrifugal cut out switch is fully operational at idle		LOW	

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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	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Ensure that the motor operation switch is in the off position before removing guards or making adjustments  Follow manufacturers' instructions Obey all warning decals Do not lean or reach over motor area with motor running Do not do any servicing or maintenance with motor running Ensure all guards and fixtures are in place Ensure machine is switched off before replacing blades Ensure guards cover the entire width of the rotating parts Ensure appropriate PPEs are used (e.g. protection for eyes, hearing, hands and footwear)	LOW
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	medium	☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach over motor area with motor running Do not do any servicing or maintenance with motor running Ensure all guards and fixtures are in place Ensure machine is switched off before replacing blades Ensure guards cover the entire width of the rotating parts Ensure appropriate PPEs are used at all times (e.g. protection for eyes, hearing, hands and footwear)	MEDIUM

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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		1	<u> </u>		
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 Ensure travel of moving machine (forward or reversing) is free of all personnel except operator Use spotter in restricted areas Ensure all loads are placed and secured within tray of vehicle Ensure exclusion zone in and around vehicle while loaded using mechanical aids Ensure centrifugal cut out switch is fully operational at idle Ensure appropriate PPE is worn when operating this machine	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					
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		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		

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Explosion			T		
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	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Do not operate in areas where fuels or gases are present Turn machine off and allow to cool before refuelling	LOW
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 Keep work area clean and free of debris Wear appropriate 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	LOW	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not touch blade and other working parts with exposed/unprotected body parts Do not do any servicing or maintenance with motor running Allow motor and other components to cool before servicing Wear appropriate PPE whilst operating this machine	LOW
Temperature and Thermal Comfort		1			•
Can anyone suffer ill-health due to:  Exposure to high or low temperatures?  Failure of air conditioning equipment?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		

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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	Always and only operate in a well- ventilated area	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 including crane, hoist, ramps etc. 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 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 equipment where it is reasonable to foresee further risk to persons or damage to equipment Always wear the appropriate PPE when operating this machine	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 equipment is on stable ground and clear of obstructions Ensure adequate ventilation	LOW

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					Ensure all safety guards and fixtures are in place Ensure machine is switched off before making any adjusts Ensure hold-to-run controls provided for machine are working and used properly Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts Ensure appropriate PPEs are used (e.g. protection for eyes, hearing, hands and footwear)	
Other Hazards					, , , , , , , , , , , , , , , , , , , ,	
Can anyone be injured of Chemicals?  Toxic gases or various Fumes?  Dust?  Noise?  Vibration?  Radiation?  Other Factors?	or suffer ill-health from exposure to: apors?	⊠ Yes □ No	LOW	⊠ Elimination     □ Substitution     □ Isolation     ⋈ Engineering     ⋈ Administration     ⋈ PPE	Follow manufacturers' instructions Obey all warning decals Operate in well-ventilated areas only Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements 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 Always wear the appropriate PPE whilst operating this machine – this includes safety hat, safety gloves, shoes, hearing and respiratory protection	LOW
Further Comments:	A Specific Risk Assessment on site mu					
	n/operated by o	competent pers	sons and hold	ders of the appropriate license		
Checklist:	<ul> <li>☑ Manufacturers' manuals referenced</li> <li>☑ Copy kept in Master Hires' Risk Managem</li> </ul>	ent File			to SRT for final review Risk Assessment considered for "Other Hazards	<b>)</b> "

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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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