

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores	Equipment:	Concrete Grinder	rs - Electric	Approved By:	Steven Jose	
Equipment Location:	Manufacturer Various Details			Signature:			
Hazard		Action Require Yes/No	d Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Trea Report Form)	tment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
brushes, rags or	air, clothing, gloves, necktie, jewellery, cleaning other materials become entangled with moving t, or materials in motion?	⊠ Yes □ No	нісн	☑ Elimination □ Substitution ☑ Isolation □ Engineering ☑ Administration ☑ PPE	Follow manufactur Obey all warning d Do not lean or read guarded area with Do not do any serv maintenance with Wear appropriate	lecals ch into under motor running vicing or	LOW
 Uncontrolload? Lack of immobilities The plan 	falling off the plant? olled or unexpected movement of the plant or it capacity for the plant to be slowed, stopped or	S Yes	MEDIUM	 ☑ Elimination □ Substitution □ Isolation □ Engineering ☑ Administration □ PPE 	running	lecals ricted areas ine unattended while securely tied down	LOW
 Coming testing, Being the second second	in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repai rown off or under the plant? apped between the plant and materials or fixed es?				operating DO NOT use this r incline or slope	-	

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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	нідн	 □ 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 and footwear)	LOW
Shearing		1	1	, , , , , , , , , , , , , , , , , , , ,	
 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					
 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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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					
 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	 ☑ Elimination □ Substitution ☑ Isolation □ Engineering ☑ Administration ☑ PPE 	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	_				1
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		Elimination Substitution Isolation Engineering Administration PPE		
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	LOW

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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

				Ensure appropriate PPEs are used (e.g. protection for breathing, eyes, hearing and footwear)	
 High Temperature Can anyone: Come into contact with objects at high temperature? Come into contact with hot fluids? Be injured by fire? 	X 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
Suffocation	Ves	MEDIUM	⊠ Elimination		LOW
Can anyone be suffocated due to: Lack of oxygen, or atmospheric contamination? 	⊠ Yes □ No		 ☑ 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)	

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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

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
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	LOW

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Other Hazards					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)	
	or suffer ill-health from exposure to: apors?	X 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 when grinding Maintain 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
Further Comments:	A Specific Risk Assessment on site This equipment must only be driv				ders of the appropriate license	
Checklist:	 Manufacturers' manuals referenced ☑ Copy kept in Master Hires' Risk Management File 					

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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.)

1	`	
Sco	ore	Action
4 A: A	4 cute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: H	3 ligh	Highest management decision is required urgently.
2 M: Me	2 edium	Follow management instructions.
1 L: L	1 _ow	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.

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