

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores	Equipment:	Mul	Mulcher - Petrol		Approved By: Steven Jose		
Equipment Location:		Manufacturer Details	Vari	ious		Signature:	ff-	
Hazard		Action Require Yes/No			Hierarchy of Control	Hazard and Risk Treatment (Complete Hazard Report Form)		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		MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☐ PPE	Follow manufacture Obey all warning de Do not lean or react with motor running Do not do any servi maintenance with m Ensure all guards a secured	ecals In into engine area cing or notor running	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?				MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacture Obey all warning de Ensure travel of mo (forward or reversin personnel Use spotter in restrict Ensure all plant and tied down securely Ensure all towing all arrangements are eand on firm ground Take care when costowing vehicle Apply/use chocks if Ensure correct lifting lifting points are used plant Ensure all persons when unit is being resure to the second towing the second towing the second towing the second towing the second the second towing the second the s	cals ving plant/vehicle g) is clear of all cted areas l attachments are nd support ngaged correctly upling plant to a necessary g equipment and ed when moving are clear of the area	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	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into engine area with motor running Do not do any servicing or maintenance with motor running Ensure all guards and fixtures are in place and operate correctly Ensure machine is switched off before making any adjustments Ensure guards cover the entire width of rotating parts Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	MEDIUM
Shearing				, , <u>,</u>	
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		☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into engine or chute area with motor running Do not do any servicing or maintenance with motor running	
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 lean or reach into engine area with motor running Do not do any servicing or maintenance with motor running Allow motor and other components to cool before servicing Hot parts that require access should be guarded and/or wear appropriate PPE	LOW
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?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Use appropriate barriers to ensure exclusion zone in and around plant while in use	MEDIUM

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Mobility of the plant?				Ensure guards and flaps are in place	
Other factors?				Wear appropriate PPE	
High Pressure Fluid			T		
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		
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		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Fueling must be carried out in well ventilated space, away from ignition source/s Engine must be switched off and cooled before refueling Avoid contact with hot surfaces such as exhaust system	
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 Wear appropriate footwear Maintain cleanliness of plant/vehicle (inside and out) Ensure debris from mulch is cleaned up immediately	LOW

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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 remove engine guards Do not do any servicing or maintenance with motor running Allow motor and other components to cool before servicing Wear appropriate PPE	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		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Be aware of body responses to adverse/ extreme weather conditions (hot/cold)	
Suffocation					•
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 Do not leave persons or animals unattended in/on plant/vehicle Position in well-ventilated area where vapours or fumes are present Operate in well-ventilated areas where vapours or fumes are created Keep windows closed with air conditioning on/in dusty environs	
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 operators personal capabilities Observe and use proper manual handling techniques	LOW

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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 is switched off Ensure equipment, attachments and sundry items are securely tied down Apply/use chocks if necessary Ensure liquids are prevented from spillage 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					T
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 gears, levers, switches etc. are engaged/disengaged appropriately before starting/operating Ensure all guards and fixtures are in place Ensure appropriate PPEs are used (e.g. protection for eyes, hearing and footwear) Ensure plant/vehicle is switched off before making any adjusts Ensure hold-to-run controls provided for machine are working properly Do not operate on steep slope Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts	LOW

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Other Hazards						
Can anyone be injured of Chemicals?	r suffer ill-health from exposure to:	☑ Yes □ No	LOW	⊠ Elimination □ Substitution □ Isolation ⊠ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Operate in well-ventilated areas where vapours or fumes are created Ensure material run is not excessively dry 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	LOW
Further Comments:	A Specific Risk Assessment on site mu					
	This equipment must only be driven	n/operated by c	ompetent pers	sons and hold	lers of the appropriate license	
Checklist:	 ☑ Manufacturers' manuals referenced ☑ Copy kept in Master Hires' Risk Manageme 	ent 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.)

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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