


Equipment Location:	Hired From All Master Hire Stores	Equipment:	Angle Grinder - Electric	Approved By:	Steven Jose
				Signature:	
		Manufacturer Details	Various		

Hazard	Action Required Yes/No	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treatment (Complete Hazard Report Form)	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement					
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<i>Follow manufacturers' instructions</i> <i>Obey all warning decals</i> <i>Wear appropriate clothing and ensure it is tucked in</i> <i>Keep clothing and body parts clear of the rotating disc</i> <i>Ensure appropriate guard is undamaged and in place</i> <i>Disconnect machine from power source before doing any servicing or maintenance</i>	LOW
Crushing					
Can anyone be crushed due to: <ul style="list-style-type: none"> ▪ 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? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE	Follow manufacturers' instructions Obey all warning decals Wear appropriate clothing and ensure it is tucked in Keep clothing and body parts clear of the rotating disc Ensure appropriate guard is undamaged and in place Disconnect machine from power source before doing any servicing or maintenance	LOW

Cutting, Stabbing and Puncturing

<p>Can anyone be cut, stabbed or punctured due to?</p> <ul style="list-style-type: none"> ▪ 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACUTE	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Do not do any servicing or maintenance with motor running</i></p> <p><i>Ensure all guards and fixtures are in place and operate correctly</i></p> <p><i>Ensure machine is switched off before making any adjustments</i></p> <p><i>Ensure guards cover the entire width of rotating parts</i></p> <p><i>Ensure appropriate PPE is used (e.g. protection for eyes, hearing and footwear)</i></p> <p><i>Ensure the correct disc/wheel is used for the job e.g. do not use a cutting disc for grinding</i></p> <p><i>Ensure disc/wheel has been properly installed and is not worn</i></p> <p><i>Do not allow the disc to rest in one spot for too long and overheat</i></p>	HIGH
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Shearing					
<p>Can anyone's body parts be:</p> <ul style="list-style-type: none"> ▪ Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Do not lean or reach into engine area with motor running</i></p> <p><i>Disconnect machine from power source before doing any servicing or maintenance</i></p>	MEDIUM

Friction					
<p>Can anyone be burnt, gain abrasions etc. due to:</p> <ul style="list-style-type: none"> ▪ Contact with moving parts or surfaces of the plant, or material handled by the plant? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Allow motor and other components to cool before servicing</i></p> <p><i>Hot parts that require access should be guarded and/or wear appropriate PPE</i></p> <p><i>Disconnect machine from power source and allow disc to stop spinning before doing any maintenance</i></p>	LOW

				<i>Ensure all guards are undamaged and in place</i>	
Striking Can anyone be struck by moving objects due to: <ul style="list-style-type: none"> ▪ 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACUTE	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<i>Follow manufacturers' instructions</i> <i>Obey all warning decals</i> <i>Do not do any servicing or maintenance with motor running</i> <i>Ensure all guards and fixtures are in place and operate correctly</i> <i>Ensure machine is switched off and disconnect machine from power source before doing any servicing, maintenance or before making any adjustments</i> <i>Ensure guards cover the entire width of rotating parts</i> <i>Ensure appropriate PPE is used (e.g. protection for eyes, hearing and footwear)</i> <i>Ensure the correct disc/wheel is used for the job e.g. do not use a cutting disc for grinding</i> <i>Ensure disc/wheel has been properly installed and is not worn</i> <i>Do not allow the disc to rest in one spot for too long and overheat</i> <i>Ensure object being worked on is securely positioned</i> <i>Ensure an exclusion zone is set up around work area</i>	HIGH
High Pressure Fluid Can anyone come into contact with: <ul style="list-style-type: none"> ▪ Fluids under high pressure in normal use, in the instance of plant failure? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		

Plant and Equipment Risk Assessment

Electrical					
<p>Can anyone be injured by electrical shock or burnt due to:</p> <ul style="list-style-type: none"> ▪ 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 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Ensure electrical cable is out of the way when cutting/grinding so the disc does not sever the cable</i></p> <p><i>Ensure electrical cables are properly maintained</i></p> <p><i>Do not operate in wet conditions</i></p> <p><i>Ensure tool is connected through an earth leakage device</i></p> <p><i>Inspect electricians and ensure there is no buildup of conductive dust from previous use</i></p>	MEDIUM
Explosion					
<p>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?</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Do not use tool near flammable liquids or gases as sparks can ignite</i></p> <p><i>Inspect electricians and ensure there is no buildup of conductive dust from previous use</i></p> <p><i>Wear appropriate PPE</i></p>	MEDIUM
Slipping, tripping and Falling					
<p>Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:</p> <ul style="list-style-type: none"> ▪ 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Wear appropriate footwear</i></p> <p><i>Ensure cables and leads are coiled properly and out of the way of pedestrians</i></p> <p><i>Ensure an exclusion zone is set up around work area</i></p> <p><i>Keep work area clean and tidy</i></p>	LOW
High Temperature					
<p>Can anyone:</p> <ul style="list-style-type: none"> ▪ Come into contact with objects at high temperature? ▪ Come into contact with hot fluids? ▪ Be injured by fire? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<p><i>Follow manufacturers' instructions</i></p> <p><i>Obey all warning decals</i></p> <p><i>Allow motor and other components to cool before servicing</i></p> <p><i>Do not use tool near flammable liquids</i></p>	MEDIUM

				<i>or gases as sparks can ignite Inspect electricians and ensure there is no buildup of conductive dust from previous use Wear appropriate PPE to protect from sparks</i>	
Temperature and Thermal Comfort					
Can anyone suffer ill-health due to: <ul style="list-style-type: none"> ▪ Exposure to high or low temperatures? ▪ Failure of air conditioning equipment? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Suffocation					
Can anyone be suffocated due to: <ul style="list-style-type: none"> ▪ Lack of oxygen, or atmospheric contamination? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE	<i>Follow manufacturers' instructions Obey all warning decals Operate in well-ventilated areas where vapours or fumes are created Keep windows closed with air conditioning on/in dusty environs</i>	
Ergonomics					
Can anyone be injured due to: <ul style="list-style-type: none"> ▪ 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<i>Follow manufacturers' instructions Obey all warning decals Ensure all guards Take regular breaks/rests particularly if operating in an awkward position Exercise/stretch regularly Do not operate beyond operators personal capabilities Observe and use proper handling techniques Ensure handles are properly positioned and maintained Ensure object being work on is securely positioned</i>	LOW

Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Operational					
Can anyone be injured by this equipment	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACUTE	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<i>Follow manufacturers' instructions</i> <i>Obey all warning decals</i> <i>Ensure gears, levers, switches etc. are engaged/disengaged appropriately before starting/operating</i> <i>Ensure all guards and fixtures are in place</i> <i>Ensure appropriate PPEs are used (e.g. protection for eyes, hearing and footwear)</i> <i>Ensure electrical cables are grounded appropriately and away from moving parts of plant</i> <i>Do not operate near flammable gases or liquids</i> <i>Ensure plant/vehicle is switched off before making any adjusts</i> <i>Ensure hold-to-run controls provided for machine are working properly</i> <i>Ensure handles and other adjustable parts are set right for the operator</i> <i>Ensure guards cover the entire width of the rotating parts</i>	MEDIUM

Other Hazards				
Can anyone be injured or suffer ill-health from exposure to: <ul style="list-style-type: none"> • Chemicals? • Toxic gases or vapors? • Fumes? • Dust? • Noise? • Vibration? • Radiation? • Other Factors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<i>Follow manufacturers' instructions</i> <i>Obey all warning decals</i> <i>Ensure appropriate PPE is worn especially eye and hearing protection</i> <i>Take frequent rests to ensure vibration fatigue does not occur</i> <i>Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements</i> <i>Maintain plant in good working order - report any malfunction or damage to Master Hire immediately and stop using plant where it is reasonable to foresee further risk to persons or damage to equipment</i>
Further Comments:	A Specific Risk Assessment on site must be undertaken prior to plant operation.			
	This equipment must only be driven/operated by competent persons and holders of the appropriate license			
Checklist:	<input checked="" type="checkbox"/> <i>Manufacturers' manuals referenced</i> <input checked="" type="checkbox"/> <i>Copy kept in Master Hires' Risk Management File</i>			

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

LIKELIHOOD	CONSEQUENCE				
	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.