

RISK ASSESSMENT								
Assessment Title:	Abrasive Wheels – Cutting & Grinding	Reference Number:		GRA006.01				
		Company Name:		Oakbank Waste Management Ltd				
		Department / Location:		Garage				
Risk Assessment Matrix								
Risk Ratings Highlighted in 'Orange' are to be discussed– potential improvements. Risk Ratings Highlighted in 'Red' need immediate action.								
Risk = Likelihood x Consequence (Multiply 'X' axis by 'Y' axis)		Consequence (Y)	Catastrophic (5)	5	10	15	20	25
1 – 4	Acceptable		Major (4)	4	8	12	16	20
5 – 9	Adequate		Moderate (3)	3	6	9	12	15
10 – 15	Tolerable		Minor (2)	2	4	6	8	10
16 – 25	Unacceptable		Insignificant (1)	1	2	3	4	5
			Remote (1)	Unlikely (2)	Possible (3)	Probable (4)	Certain (5)	
			Likelihood (X)					
Any queries arising from this risk assessment shall be addressed immediately with Line Management / Health & Safety Manager								

Hazard(s)	Risks of Harm	Persons at Risk	Risk Rating(s)			Existing Control Measures	Residual Risk Rating(s)		
	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	<i>X</i>	<i>Y</i>	<i>R</i>	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	<i>X</i>	<i>Y</i>	<i>R</i>
Rotating Discs / Stones	Cuts, abrasions due to contact with rotating discs or stones. Potential entanglement leading to amputations	Technicians / Engineers / Fitters / Operators	3	4	12	<ul style="list-style-type: none"> Only competent / trained Engineer / Fitters / Operators to use equipment. All guards to be in place and used correctly. Grinders must not be used with guards missing, modified or damaged. No loose clothing or jewellery to be worn - company policy. Long hair to be tied back or hair net to be used. No grinding wheels / stones / discs to be replaced or serviced until grinder has completely stopped turning and has been isolated from its power supply. Keeps / Tool Rests to be adjusted correctly each time the unit is used (bench grinder). 	2	3	6
Ejected / Flying Material	Eye or facial injuries to the operator through contact with	Technicians / Engineers / Fitters / Operators and anyone in close proximity	3	4	12	<ul style="list-style-type: none"> Operators to ensure tool / equipment guards are in place and used correctly. Wheels / stones / discs to be inspected regularly, visual inspection conducted by the operator prior to each use. Stones to be dressed and keeps adjusted as required to reduce the risk of tools or materials becoming caught and ejected. Wheels / stones / discs to be changed by trained / competent staff. Sparks & material ejected from grinding operation, operators must always wear suitable eye protection. Mandatory "Wear Eye Protection" signs must be displayed near to fixed equipment. 	2	3	6
Noise	Noise exposure causing acute and chronic hearing injury	Technicians / Engineers / Fitters / Operators and anyone in close proximity	2	3	6	<ul style="list-style-type: none"> Operators to wear suitable ear protection when using grinders or other abrasive wheels. Regular breaks to be taken by operator. Survey noise levels as required. Operate tools away from other employees. Demarcate noise zones and add suitable signage. Audiometric testing to be carried out annually for all operators exposed to high levels / long exposure of noise above action levels. 	1	3	3

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	<i>X</i>	<i>Y</i>	<i>R</i>	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	<i>X</i>	<i>Y</i>	<i>R</i>
Dust & Fumes	Inhalation of harmful dust or fumes. Materials ingress into the eyes	Technicians / Engineers / Fitters / Operators and anyone in close proximity	3	3	9	<ul style="list-style-type: none"> Grinding to be carried out in a well-ventilated area or with dust extraction system. Suitable PPE/RPE to be used based on process – mask / respirator / air fed mask. Where required PPE/RPE to be issued to others in proximity if location cannot be changed. 	2	2	4
Fire	Fire starting through expulsion of sparks igniting nearby combustible materials	All persons in the premises and any adjoining	3	5	15	<ul style="list-style-type: none"> All combustible material must be removed wherever possible before grinding starts. Work to be planned to ensure waste material / sparks do not create additional risk of fire. The correct fire extinguisher must be available in the vicinity. Training of staff for correct use of differing fire extinguishers. 	1	5	5