

Technologies - No.55 Bench/Pedestal Grinder (List additional hazards, risks and controls particular to your school using the blank template no.69)

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Controls (When all controls are in place risk will be reduced).	Is this control in place?	Action/to do list/outstanding controls *Risk rating applies to outstanding controls outlined in this column	Person responsible	Signature and date completed
Contact with moving parts		Laceration of fingers due to contact with moving parts	H	Notice setting out the dangers arising from the use of grinding wheels and the precautions to be observed in relation to them is prominently displayed close to the grinder				
			H	Work rests fitted with a gap <3mm between the edge of the work rest and the wheel				
			H	Guard enclosing the grinding wheels and spindles, with an appropriate gap at the front to allow access to the work piece				
			H	The stop control is more prominent than the start control to facilitate ease and speed of access when it is necessary to turn off the machine				
			H	Machine is fitted with an emergency stop control (usually red domed mushroom type head on yellow housing) in an appropriate location, which is easily accessible in an emergency				
			H	The flap type emergency stop control (flap-stop is a normal start and stop contact, which is equipped with a yellow flap and red mushroom-type push buttons, covering both the start and stop contacts) is not acceptable where there is a need for an emergency stop				
Disintegration of wheel		Laceration of fingers, flying objects / debris from disintegrating grinding wheel	M	Maximum speed of the spindle clearly marked on the machine				
			M	Maximum operating speed of a wheel should never be exceeded				
			H	Only persons trained in the fitting of grinding wheels are permitted to do so				

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Contact by persons other than the operator with moving machinery		Entanglement, pinching, amputation of body parts	H	Safe operational areas should be marked out clearly around machines				
Direct contact with moving parts		Cutters, blades abrasive wheels and sanding discs, contact with which can cause injuries	H	Before use a visual check should be carried out to ensure where applicable all guards and covers are fitted, in good order and there are no visible faults				
			H	Tools are used in compliance with manufacturers instructions				
			H	Dangling jewellery prohibited				
			H	Long hair is tied back				
			M	Operators manual is available where required				
Ejection of flying debris when grinding		Eye injury	M	Eye screen is constructed, fastened to the fixed flange guard and appropriately adjusted so that the operator shall see the working part of the wheel only through the screen				
			M	Suitable eye or face protection worn				
Sparks from grinder		Source of ignition leading to fire	H	Ensure correct precautions are taken when using grinder including good housekeeping to prevent accumulation of any combustible material nearby				

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Electric shock, electrocution, burns, death		Electric shock/fire/ burns	H	Visual check carried out prior to use				
			H	Machines are serviced by a competent person and service records kept as part of the maintenance schedule				
			H	Defective electrical equipment shall be clearly identified, labelled as out of use. Ensure all faults are recorded in log book. Ensure any previous faults have received attention. Report defects to person in control of workplace to ensure all items are repaired or replaced				
			H	The operation of the RCD is checked by pressing the test button regularly and the RCD is tested periodically by a competent person to ensure that it operates at correct leakage current (leakage current not exceeding 30 mA in a time of not more than 0.3 seconds)				
			H	Ensure cables are free from damage, do not have any non-standard joints or show any signs of overheating				
			H	Ensure cable and plug are in good condition				
			H	Ensure equipment is disconnected or isolated when not in use				
Unsecured machine / unsecured work piece		Movement of machine or unsecured work piece leading to injury during use	H	Machine securely fixed to the floor or bench and appropriate clamps in place to ensure that work pieces are secured, where applicable				

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Unsupervised use of machines		Unsupervised use leading to injury	H	Pupils are prohibited from using certain machinery				
			H	Pupils are instructed by teacher before using any machine				
			H	Pupils are supervised by teacher when using any machine				
			H	Machinery to be used by teachers only should be clearly identified				
Noise		Hearing damage	H	Noise measurements carried out where necessary by a competent person				
			H	Warning signs are in place beside fixed noisy equipment and are visible				
			H	Hearing protection is worn where necessary				
Inadequate signage		Inadequate information and warnings leading to unsafe use of machine and injury	M	Warning signs are prominently located and maintained in good condition				
Ingestion of contaminated material		Poisoning or ill health	M	Food and drink are prohibited in working area				
Contact with hazardous materials		Exposure to hazardous materials	M	Personal hygiene is promoted (washing of hands, use of barrier creams etc.)				

If there is one or more **High Risk (H)** actions needed, then the risk of injury could be high and immediate action should be taken. **Medium Risk (M)** actions should be dealt with as soon as possible. **Low Risk (L)** actions should be dealt with as soon as practicable.

Risk Assessment carried out by: _____

Date: / /