

Technologies - No.57 Milling Machine (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 rotating parts i.e. rotating tools or drive mechanism		Cuts	H	Appropriate adjustable guard in place for cutters				
		Amputation	H	Only remove swarf when machine is not operating				
		Entanglement	H	Drive mechanism appropriately guarded. Guard removable only with the use of a tool or alternatively be fitted with an interlocking guard mechanism				
			H	In the event of power supply interruption, automatic restart is prevented after restoration of the power supply				
			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				
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 to ensure a space of at least 500mm between machine table at extreme ends of its travel and any fixed object				

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Unsecured machine or work-piece		Cuts/ lacerations	H	Appropriate clamps are used to ensure that the work-piece is secured				
Metal-working fluids		Irritation to skin/eyes/ throat Occupational dermatitis	L	Minimise mist formation and splashing				
			L	Clean contaminated clothing				
			L	Hygiene controls in place				
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	Ensure cables are free from damage, do not have any non-standard joints or show any signs of overheating				
			H	Ensure equipment is disconnected or isolated when not in use				

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Unsupervised use of machines		Unsupervised use leading to injury	H	Pupils are prohibited from using certain machinery				
			H	Pupils are supervised by teacher when using any machine				
			H	Pupils are instructed by teacher before using any machine				
			H	Machinery to be used by teachers only should be clearly identified				
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				
Flying fragments		Eye/facial injury	H	Appropriate eye protection is worn				
			H	Adequate precautions when removing swarf				

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Direct contact with moving parts		Injuries causing laceration, amputation, bruising, fracture or burns	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				
			M	Operators manual is available where required				
			H	Dangling jewellery prohibited				
			H	Long hair is tied back				
			H	Eye protection is worn				
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: / /