

**Technologies - No.53 Metal Working Centre Lathe (manually operated) (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, spindles chucks and work pieces		Cuts	H	Drive mechanism is guarded. Fixed guard in place (removable only with the use of a tool)				
		Amputations	H	Hollow spindle is covered/guarded				
		Entanglement		Rear Spindle cover guard fitted				
				Chuck guard fitted				
				Splash guard fitted				
				Rear guard fitted				
				Lead /Feed screws shall be guarded unless safe by position				
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				
Contact with lathe		Cuts/ lacerations	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				
		Amputations	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				
		Entanglement		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				

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Contact with moving parts		Injuries due to contact with moving parts ie lacerations, amputations, bruising, fracture, 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	Files and abrasive tape should not be used				
			H	In the event of power supply interruption, automatic restart is prevented after restoration of the power supply				
Contact with metal working fluid		Absorption of fluids through skin or irritation etc.	H	Control use of cutting fluids				
Contact with swarf		Cuts/ lacerations	H	Precautions taken to remove swarf including the use of implements (dustpan and brush) to avoid handling swarf				
Use of turning tools		Entanglement and lacerations or amputation of fingers.	H	Appropriate turning tools used, which are maintained in a good condition				
Ejected material		Flying objects leading to injury, eye injury	H	Work piece is securely fixed in place and chuck wrench removed				
			H	Spring loaded chuck keys should be used				
Flying debris		Being struck by flying debris leading to injury	M	Safe guards in place and wear eye protection				

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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). Applicable to plug & sockets arrangements				
			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				
Unsecured machine		Movement of machine leading to injury during use	H	Machine securely fixed to the floor or bench				
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				
			H	Refer to machinery operator's manual				

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Inadequate signage		Inadequate information and warnings leading to unsafe use of machine and injury	<b>M</b>	Warning signs are prominently located and maintained in good condition				
Ingestion of contaminated material		Poisoning or ill health	<b>M</b>	Food and drink are prohibited in working area				
Contact with hazardous materials		Exposure to hazardous materials	<b>M</b>	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: / /