Technologies (Milling Machine) – Risk Assessment Template No. 60 (List additional hazards, risks and controls particular to your school using Template No.74)

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
Contact with rotating parts i.e. rotating tools or drive mechanism		Cuts Amputation Entanglement	H	An appropriate adjustable guard is in place for cutters				
			H	Swarf is only removed when machine is not operating				
			H	The drive mechanism is appropriately guarded The guard is removable only with the use of a tool, or alternatively is 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	The 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 The emergency stop works				
			H	The flap type[20] 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				

[20]Flap Type Emergency Stop Control

Technologies (Milling Machine) – Risk Assessment Template No. 60 – cont'd. (List additional hazards, risks and controls particular to your school using Template No.74)

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
Contact by persons other than the operator with moving machinery		Entanglement, pinching, crush injury, amputation of body parts	H	Safe operational areas are 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				
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	Metalworking fluids, if used, should be mixed and changed in accordance with the supplier's instructions Mist formation and splashing is minimised				
			L	Contaminated clothing is cleaned				
			L	Hygiene controls are in place				
Electric shock, electrocution, burns, death		Electric shock/ fire/burns	H	A visual check carried out before use				
			H	Machines are serviced by a competent person and service records kept as part of the maintenance schedule				
			H	Defective electrical equipment is clearly identified and labelled as out of use All faults are recorded in log book. Previous faults have received attention Defects are reported to person in control of workplace to ensure all items are repaired or replaced				
			H	Cables are free from damage, do not have any non-standard joints or show any signs of overheating				
Prevention of accidental start-up			H	Equipment is disconnected or isolated when not in use				

Technologies (Milling Machine) – Risk Assessment Template No. 60 – cont'd. (List additional hazards, risks and controls particular to your school using Template No.74)

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
Unsupervised use of machines		Unsupervised use leading to injury	H	Students are prohibited from using certain machinery				
			H	Students are supervised by their teacher when using any machine				
			H	Students are instructed by their teacher before using any machine				
			H	Machinery to be used by teachers only is 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 The operator's manual is available				
Flying fragments		Eye/facial injury	H	Appropriate eye protection is worn				
			H	Precautions are in place to prevent hand contact when removing swarf				
Direct contact with moving parts		Injuries causing laceration, amputation, bruising, fracture or burns	H	Before use a visual check is carried out to ensure, where applicable ,all guards and covers are fitted, in good order , and there are no visible faults				
			H	Machine used in compliance with manufacturer's instructions				
			H	Dangling jewellery is prohibited Gloves, rings or loose clothing are not worn				
			H	Long hair is tied back				
			H	Eye protection is worn				

Technologies (Milling Machine) – Risk Assessment Template No. 60 – cont'd. (List additional hazards, risks and controls particular to your school using Template No.74)

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
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.

© All Rights Reserved

Risk Assessment carried out by: _____ **Date:** / /