

Technologies - No.54 Woodworking Bench Circular Saw (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 | | Entanglement and lacerations or amputation of fingers. | H | Extension tables are used when cutting large sheet materials | | | | |
| | | | H | Rip fence in place which is adjustable parallel to the saw blade | | | | |
| | | | H | Bottom guard fixed (removable only with the use of a tool) | | | | |
| | | | H | Crown guard extends from the top of the riving knife to a point above and as close as practicable to the work piece | | | | |
| | | | H | The crown guard extends down each side of the saw blade and the adjustment ensures that the roots of the teeth are covered at all times | | | | |
| | | | H | Push sticks used | | | | |
| | | | 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 and operators manual is available where required | | | | |
| | | | H | Dangling jewellery prohibited | | | | |
| | | | H | Long hair is tied back | | | | |
| Contact with moving saw blade | | Lacerations and amputation of fingers | H | Bottom guard must be fixed | | | | |

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| Contact with power transimission | | Laceration and amputation of fingers | H | Power transmission appropriately guarded. Guard removable only with the use of a tool or alternatively be fitted with an interlocking guard mechanism | | | | |
| Contact by persons other than the operator with moving machinery | | Entanglement, laceration, amputation of body parts | H | Safe operational areas should be marked out clearly around machines | | | | |
| Contact with blade | | 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 | | | | |
| | | | | In the event of power supply interruption, automatic restart is prevented after restoration of the power supply | | | | |
| Material ejected by blade | | Ejected material leading to injury | H | Riving knife securely fixed and adjusted so that it does not exceed 8 mm from the blade at bench level. Distance must be between 3-8 mm. Ensure equipment is used in line with manufacturers instructions | | | | |

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| Kickback | | Injury sustained from kickback such as fractures, bruising and laceration | H | Saw blade is sharp and in good condition to prevent kick back | | | | |
| Cleaning of blade and removal of gum/ resin | | Severe cuts or amputations | H | Ensure cleaning of blades is carried out using appropriate Personal Protective Equipment (PPE) and following best practice guidelines provided by manufacturers | | | | |
| 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 and stored separately to prevent accidental 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 equipment is disconnected or locked out 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 | | | | |
| 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/jigs in place to ensure that work pieces are secured, where applicable | | | | |
| Noise | | Hearing damage | H | See 'General School Risk Assessments - No. 26 Noise' | | | | |
| 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 debris | | Being struck by flying debris leading to injury | M | Appropriate eye protection is worn | | | | |

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| Dust | | Dust inhalation | H | Machine is fitted to a suitable dust extraction device system when in use, e.g. local extraction unit or central extraction unit | | | | |
| | | Respiratory problems | H | Exposure to all wood dusts (hard and soft woods) is strictly controlled i.e. dust levels are kept well below the relevant occupational exposure limit values (OELVs) ¹ | | | | |
| | | Eye irritation | H | Respiratory protective equipment (RPE) is used during change of filter bag e.g. CE marked disposable filtering face piece respirators FFP1 or FFP2 | | | | |
| | | | H | Appropriate personal protective equipment (PPE) is available, e.g. overalls, eye protection, gloves etc | | | | |
| | | | H | Housekeeping is maintained to a high standard to ensure control of any residual dust | | | | |
| 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.) | | | | |
| | | | | | | | | |

¹ See 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

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: / /