



Forename: _____ Surname: _____

School / College / Institution: _____

Course date: _____

These Training and Accreditation Guidelines are based on, and should be used in conjunction with the following essential publications:

- Health and Safety Training Standards in Design and Technology: D&T Association.
- BS 4163:2021+A1:2022 Health and safety for design and technology in educational and similar establishments – Code of practice.
- Model Risk Assessments for D&T in Secondary Schools and Colleges: CLEAPSS.

Summary Overview**Please tick the boxes below to confirm the sections that you have completed in this document:**

1. Requirements relating to power fret saws.	☐
2. Practical Assessment – skills using power fret saws.	☐

The RDTHSC/Trainer will sign and date this form on completion.

RDTHSC/Trainer signature: _____

Date: _____

Delegate signature: _____

Date: _____

Please tick the individual requirements listed in the following sections to confirm your knowledge, skills and understanding, and that you have completed the Practical Assessments:

Assessment Task 1 Requirements Relating to <u>Power Fret Saws</u> – what you should know and understand:		
Hazards	Safe system of working (control measures)	
Entrapment/hands or fingers in contact with the saw blade.	- Long hair and loose clothing should be secured. - Dangling jewellery should be removed. - Gloves or bandages should not be worn. - An apron or work coat should be worn. - Blades should be guarded at all times, and the hold-down foot must be used at all times.	☐
Blunt/use of incorrect blades.	Blades should be sharp and should be of the correct pattern for the machine and distortion-free (blunt or distorted blades can break in use).	☐
Wood dust.	- A risk assessment should be carried out to evaluate the likely risks to health from inhalation of wood dust, and any action required to prevent or control the risks. - Effective LEV to COSHH regulations should be in place if required by risk assessment. - Suitable eye protection should be available near the machine. This should conform to EN ISO 16321:2022 'E' rating. (Existing eye protection BS EN 166:2002 1B can continue in use until 2029). - Eye protection stickers should be fitted on or close to the machine. - Eye protection must be in use at all times.	☐
Electric shock/inadvertent starting of the machine.	The machine must have: - A means of electrical isolation. - Fused switch disconnector. - Starter with overload protection and no-volt release. - Armoured cable to isolator. - A conveniently operated control device that can quickly stop the machine in an emergency. - The machine must be electrically isolated before blades are changed. - The machine should be included in a planned maintenance programme that should include electrical safety tests.	☐
The fret saw machine becoming detached from the bench.	The saw should be securely fixed to the bench. Alternatively, if on a floor-mounted stand, the stand should be securely fixed.	☐
Position/space around the machine.	- The height of the machine should be set for comfortable working as appropriate. - Sufficient space around the machine to prevent the operator being pushed by passers-by.	☐
Flooring.	- Floor surface should not be slippery and should be kept free of loose items. - Suitable footwear should be worn. - See BS 4163:2021+A1:2022 Section 6 Working Area Environment.	☐
Lighting.	- Adequate lighting should be provided. - See BS 4163:2021+A1:2022 Section 6 Working Area Environment.	☐

Teaching Strategies

- It is essential that a risk assessment is completed to cover the use of this machine by learners and colleagues. This will normally involve the adoption and adaptation of model risk assessments, e.g. BS 4163:2021+A1:2022.
- It is essential that a regular maintenance programme is put into operation and that a maintenance log is kept. This should involve daily, weekly and termly checks, covering general maintenance and identifying any faults that require repairs.
- It is essential that a regular maintenance programme is put into operation and that a maintenance log is kept. This should involve daily, weekly and termly checks, covering general maintenance and identifying any faults that require repairs.
- Local exhaust ventilation (LEV) systems where fitted should be cleaned at least weekly. The COSHH Regulations require that systems should be examined at least every 14 months and a record maintained of the efficiency of the system
- Learners should be aware of the hazards associated with the equipment and the precautions that should be taken.
- Before using the equipment, learners should be trained and assessed as competent, and a record of their training should be kept.
- Learners should be supervised at all times by a trained, competent person.
- Fret sawing machine health and safety rules should be available and observed.
- Demonstration of fret sawing machines to learners should include:
 - The position of all controls, i.e. workshop emergency stop buttons, isolator switch, start button and emergency foot stop button on the machine.
 - The use of eye protection and dust masks if required.
 - The use of LEV.
 - How to check the condition and orientation of the blade.
 - The use of and correct position of the hold down arm and guard.
 - The operation of the machine by one student at a time.
 - How to hold material being cut, i.e. firmly on the machine table, keeping fingers either side of the blade to prevent contact with the blade.
 - Problems associated with using different materials, e.g. cutting acrylic.

Assessment Task 2 Practical Assessment –

what you should be able to demonstrate when using Power Fret Saws:



Cut an external shape to a marked line, to demonstrate:

- Correct adjustment of hold-down arm and guard
- Correct positioning of hands whilst cutting

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Cut an internal shape to a marked line, to demonstrate:

- Correct procedure for the removal and replacement of the blade.

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