

# PROFFI228 (SQA Unit Code - FE6H 04) Set up and operate woodworking machinery



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## Overview

This standard addresses the competence required to make timber and timber based products using wood working machinery. This involves:

- 1 interpreting information
- 2 planning, organising and adopting safe working practices
- 3 selecting and maximising resources
- 4 preparing and setting up machinery to work timber and timber-based materials to a specification

There is also a scope statement which defines the coverage of this standard.

# PROFFI228 (SQA Unit Code - FE6H 04)

## Set up and operate woodworking machinery

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### Performance criteria

*You must be able to:*

#### **Prepare, set up and establish the suitability of machinery and materials**

- P1 obtain and clarify all necessary **information**
- P2 obtain and check the **resources** to make sure they are suitable for the work and meet the **information** requirements
- P3 take the necessary **corrective action** when **resources** are incomplete or unsuitable
- P4 set up the machinery to enable it to be used safely and effectively and to meet the **information** requirements
- P5 confirm that the machinery is ready and able to carry out the relevant machining operations on the specified materials
- P6 identify when repairs to machinery are necessary and/or when replacement is required

*You must be able to:*

#### **Modify materials to form timber and timber-based products**

- P7 comply with the relevant health and safety legislation throughout the operation of the machinery
- P8 ensure that, when necessary, support personnel are in place before and during operations
- P9 operate and maintain the machinery in compliance with manufacturer's recommendations and industry codes of practice
- P10 produce finished machined products which conform to the **information** requirements
- P11 complete the machining operations within the allocated times and operational constraints
- P12 take the necessary **corrective action** in the event of machinery malfunction or material fault

*You must be able to:*

#### **Contribute to the provision of a safe work environment**

- P13 carry out **work practices** to keep areas clean, and free from debris and waste, in accordance with the given **information**
- P14 identify potential hazards arising from your **work practices**, which might affect yourself and others, and take the necessary **corrective action**
- P15 carry out **work practices** to comply with the given **information**, to maintain safe and healthy working conditions

# PROFFI228 (SQA Unit Code - FE6H 04)

## Set up and operate woodworking machinery

### Knowledge and understanding

#### Prepare, set up and establish the suitability of machinery and materials

*You need to know and understand:*

- K1 what the relevant health and safety legislation requires for the particular machines to be used
- K2 what sources of information to use
- K3 which lines and methods of effective communication to use
- K4 what the location is of resources you will need
- K5 what relevant dimensional control aids there are and their uses, e.g. templates, jigs
- K6 how to run the machine operating systems
- K7 how to achieve the correct positioning and securing of tooling
- K8 what the names, characteristics, uses and limitations are of timber and timber-based materials
- K9 what the compatibility is of materials with machines
- K10 what common defects and discrepancies in materials and machines can occur, and how to identify them
- K11 what the correct use is of relevant lubricants
- K12 what relevant Personal Protective Equipment (PPE) to use and how to use it correctly
- K13 what risk assessment techniques should be followed
- K14 what constitutes the work environment
- K15 what environment control equipment is used with the machines
- K16 what documentation requirements you need to follow

#### Modify materials to form timber and timber-based products

*You need to know and understand:*

- K17 what the relevant health and safety legislation requires
- K18 the particular machine to be used
- K19 how to interpret specifications
- K20 what the names, characteristics, uses and limitations are of materials
- K21 what the names, characteristics, uses and limitations are of sawing, planing and morticing machines
- K22 what lines and methods of effective communication to use
- K23 how to run the machine operating systems
- K24 what the compatibility is of materials with machines
- K25 how damage can be caused to materials and machines and how to avoid it
- K26 what the correct use is of relevant lubricants
- K27 what relevant Personal Protective Equipment (PPE) to use and how to use it correctly
- K28 what risk assessment techniques are followed
- K29 what constitutes the work environment
- K30 what environment control equipment is used with the machines
- K31 what documentation requirements you need to follow
- K32 how to dispose of waste in accordance with current legislation

# PROFFI228 (SQA Unit Code - FE6H 04)

## Set up and operate woodworking machinery

---

*You need to know and understand:*

### **Contribute to the provision of a safe work environment**

- K33 what your responsibilities with regard to current legislation and official guidance with regard to:
- K33.1 the Health and Safety at Work Act
  - K33.2 the Management of Health and Safety at Work Regulations
  - K33.3 the Manual Handling Operations Regulations
  - K33.4 the Personal Protective Equipment at Work Regulations
  - K33.5 the Construction (Design and Management) Regulations
  - K33.6 the Construction (Health, Safety and Welfare) Regulations
  - K33.7 the Provision and Use of Work Equipment Regulations
  - K33.8 the Control of Substances Hazardous to Health Regulations
  - K33.9 company policy regarding legislation and guidance which you should be aware of and observe
- K34 common forms of accident and health hazard involving employees, occurring on site or in a workshop types of fire control equipment and its use, found on site or in the workshop
- K35 what safe methods exist for removal and disposal of waste materials/components relating to your occupation and associated occupations from the work area

# PROFFI228 (SQA Unit Code - FE6H 04)

## Set up and operate woodworking machinery

---

### Additional Information

#### Scope

#### Corrective actions

The person carrying out this work would be expected to be competent to isolate equipment until a malfunction is dealt with and to report a malfunction to the relevant person(s) to deal with it.

In the event of hazards arising from work activities they would be expected to correct hazards which were within their own authority to address, report hazards to the person in charge and warn others of fire, accident or equipment failure.

#### Resources

The resources covered by this unit address both machinery and materials as well as support personnel and job documentation.

- 1 Typical machinery within furniture manufacture would include:
- 2 table saw
- 3 sanding machine
- 4 band saw
- 5 narrow band saw
- 6 dimension saw
- 7 cross-cut saw
- 8 rip saw
- 9 planer/thicknesser
- 10 mortice machine / chisel morticer
- 11 CNC machines

Typical materials within furniture manufacture would include:

1. timber (e.g. hard woods such as oak and mahogany and soft woods such as pine)
2. timber-based materials (e.g. composites)

#### Information

Information on the work required and practices to follow can be obtained from a range of sources including drawings, cutting lists, specifications, spoken and written instructions, regulations and legal requirements, official guidance, manufacturers' instructions, security instructions and other organisational requirements.

#### Setting up

Setting up covers the preparation of:

- 1 jigs and templates
- 2 work-piece supports
- 3 safety appliances
- 4 environmental control equipment

#### Work practices

The work practices to be followed to maintain safety relate to:

- 1 following instructions
- 2 following company procedures and official guidance
- 3 identifying hazards
- 4 cleaning up and disposing of waste in your own work area and areas to which you have access
- 5 securing tools and equipment

## **PROFFI228 (SQA Unit Code - FE6H 04)**

### **Set up and operate woodworking machinery**

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- 1 using personal protective equipment
- 2 following organisational policy on personal behaviour
- 3 maintaining an acceptable level of personal hygiene

# PROFFI228 (SQA Unit Code - FE6H 04)

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**Status** Original

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**Originating organisation** Proskills

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**Relevant occupations** Paper and wood machine operatives; Furniture maker and other craft woodworkers; Upholsterers; Labourers build and woodworking trades

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**Suite** Furniture, Furnishings and Interiors

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**Key words** Contemporary Furniture Making; Traditional Furniture Making; Bed Making; Frame Making; Component Manufacture; Veneering; Modern Upholstery; Traditional Upholstery; Soft Furnishing; Cutting; Sewing; Hand Finishing;