

# PROFFI216 (SQA Unit Code - FE6D 04)

## Produce workshop equipment



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### Overview

This standard addresses the competence required to produce workshop equipment for use in furniture making. This involves:

- 1 developing and drafting specifications
- 2 following specifications
- 3 applying a range of wood working techniques
- 4 working in ways which maintain your own and others' safety

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

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### Performance criteria

#### Produce specifications for workshop tools and devices

*You must be able to:*

- P1 make sure that you have clear and complete details on the requirements to be specified
- P2 clarify and confirm any requirements which are unusual, unclear and difficult to meet
- P3 determine what the **specification** will need to include for the requirements you have been given to be accurately met
- P4 produce a clear **specification**, making correct use of technical terms and units of measurement and scale
- P5 include full and accurate details on:
  - P5.1 what is to be made
  - P5.2 the **materials** and **tools** to be used
  - P5.3 the **surface finish** to be achieved
  - P5.4 the **techniques** to be used
  - P5.5 the dimensions and tolerance levels to be achieved in the finished item
  - P5.6 safety requirements to be met
- P6 complete the **specification** in the required time
- P7 provide the **specification** to the person who needs it in the **format** requested

#### Produce workshop tools and devices

*You must be able to:*

- P8 organise the **materials** and **tools** you will need so that you can work effectively and keep your work area tidy
- P9 check that you have the required **specification** and that everything you need to achieve it is available
- P10 follow the **specification** correctly and completely and accurately measure and mark out the material
- P11 use the specified **techniques** correctly
- P12 clean off any excess glue, debris and foreign objects
- P13 check and confirm that you have achieved the required tolerances, **surface finish** and performance accuracy before handing the item over as complete
- P14 follow safe working practices when handling **tools** and **materials**
- P15 promptly ask for advice on how to deal with any problems that arise in meeting the **specification**
- P16 return all **tools** and unused **materials** to the correct storage locations after use
- P17 complete the work within the required time

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### Knowledge and understanding

#### Produce specifications for workshop tools and devices

*You need to know and understand:*

- K1 the different sorts of workshop tools and devices that are used in making wooden furniture by hand
- K2 what sorts of materials, tools and techniques are used for making different workshop tools and devices and why
- K3 the meaning of technical terms used to describe workshop tools and devices
- K4 units of measurement used to specify length, width, thickness and performance accuracy and the tolerance levels to which each should be specified
- K5 conventions used in the preparation of cutting lists and technical drawings
- K6** the implications for your work of the HASAWA and COSHH Regulations, including where to find out about relevant risk assessment details and control methods that have been set by your organisation

#### Produce workshop tools and devices

*You need to know and understand:*

- K7 the different sorts of workshop tools and devices that are used in making wooden furniture by hand
- K8 what sorts of materials, tools and techniques are used for making different workshop tools and devices and why
- K9 the meaning of technical terms used to describe workshop tools and devices
- K10 units of measurement used to specify length, width, thickness and performance accuracy and the tolerance levels associated with them
- K11 how to identify the face side of material and why correct and accurate surface preparation is important
- K12 what the growth characteristics are of different hard and soft woods and what implications this has for how to work with them
- K13 the implications for your work of the HASAWA and COSHH Regulations, including where to find out about relevant risk assessment and control measures that have been set by your organisation
- K14 how to test tools and devices for dimensional accuracy and performance accuracy
- K15 why it is important to return tools and materials to storage when not in use
- K16 how long it should take to achieve different sorts of specifications

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### Additional Information

#### Scope

#### Format

Usually specifications will be written or drawn and the competence involved in producing specifications requires the ability to describe technical details in text form and to prepare technical drawings. While the production of workshop tools and devices will usually be from a written or drawn specification, the competent person should also be able to work from specifications given orally.

#### Materials

The materials used in constructing workshop tools and devices include hardwoods, softwoods, wood composites (typically plywood, chipboard or MDF) and adhesives.

#### Personal protective equipment

Ear, eye and respiratory protection as well as protective gloves and footwear.

#### Specifications

Specifications are details as to the length, width, thickness, angle and surface finish requirements to be worked to in producing different workshop tools and devices used in making hand crafted furniture. They also refer to the performance accuracy which they must be produced to achieve. These would typically be within +/- 0.5 mm tolerances.

#### Surface finish

Smooth, planed and sanded surface finishes will be needed, depending on the workshop tool or device being specified and produced.

#### Techniques

Sawing, planing, drilling, chiselling and routing.

#### Tools and equipment

The chisels, planes, cramps, saws, drills, drill bits, squares, mallets, scrapers, honing stones, knives and measuring devices used in the making of hand-crafted furniture. Also includes powered tools such as sanders, routers, drills, power saws and planers. Workshop tools and devices include jigs, patterns and templates.

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**Developed by** Proskills

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**Validity** Current

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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;