
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

**Performance
criteria**

- 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
 - 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

Knowledge and understanding

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 relevant regulations, including where to find out about relevant risk assessment details and control methods that have been set by your organisation
- 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
- 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 how to test tools and devices for dimensional accuracy and performance accuracy
- K14 why it is important to return tools and materials to storage when not in use
how long it should take to achieve different sorts of specifications

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 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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