

PROFF7 (SQA Unit Code – HE6K 04) Prepare hand-crafted furniture for finishing



Overview

This standard addresses the competence required to prepare hand-crafted furniture for finishing. This involves preparing workpieces for finishing, applying fillers where required and working in ways which maintain your own and others' health and safety. It applies to using both powered and non-powered hand tools.

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

**Performance
criteria**

- You must be able to:
- P1 organise the **tools and equipment** you will need so that you can work effectively and keep your work area tidy
 - P2 make sure that you have the required **work specification** and that everything you need to achieve it is available
 - P3 check the **workpiece** and accurately identify any **faults** that are present
 - P4 apply the appropriate remedial treatment to any **faults** that are present
 - P5 inspect **tools** prior to use and take appropriate action if a fault is identified
 - P6 sharpen and set any hand **tools** to achieve required level of **finish**
 - P7 inspect any abrasive **machinery** prior to use and take appropriate action if a fault is identified
 - P8 use appropriate **tools, equipment and machinery** following correct health and safety procedures to achieve required **finish**
 - P9 make sure that any adhesives left on **surfaces** are completely removed
 - P10 make sure that **surfaces** are clean and free of dust and debris
 - P11 make sure that **surfaces** are ready to receive the specified **finish**
 - P12 follow safe working procedures when:
 - P12.1 lifting and moving heavy items;
 - P12.2 using **materials, tools equipment and machinery**
 - P13 handle and store the **workpiece** in ways which protect it from damage

Knowledge and understanding

You need to know and understand:

- K1 the meaning of technical terms used in specifications for hand-crafted furniture
- K2 what checks are carried out on work-pieces which are being prepared for finishing
- K3 what sorts of faults can occur and how to recognise them
- K4 what remedial action to take to deal with different types of faults
- K5 which tools and equipment to use to remedy different sorts of faults
- K6 how to sharpen and set hand tools to achieve required level of finish
- K7 the types and purpose of fillers and stoppers
- K8 how to recognise different grades of abrasives and what each are used for
- K9 how to handle powered tools safely in ways that protect yourself and others from risk
- K10 how to recognise the types of equipment and machinery faults that can occur and how to deal with them appropriately
- K11 the implications to your work of the relevant regulations, risk assessments and risk control strategies that have been set by your organisation
- K12 where work-pieces should be stored
- K13 how to protect work-pieces during handling and storage
- K14 how to dispose of waste in accordance with current legislation

Additional information

Scope / range:

Faults

The kinds of faults which could occur to work-pieces prior to treating would include machining marks, holes, bruising, splits, scratches, dents and the presence of adhesives. Types of faults that could occur during application of fillers would include over-thinned grain-fillers, incorrectly mixed grain-fillers and non-removal of excess grain-filler. The person carrying out this role is responsible for identifying and dealing with faults which can be treated readily if responded to promptly. Problems which cannot be resolved in that way would be reported using the correct workplace procedures.

Personal Protective Equipment (PPE)

This covers eye protection, gloves, overalls and respiratory equipment as well as barrier, cleansing and after-care creams.

Surface

Surfaces may be solid wood, veneered or flat panels.

Tools equipment and machinery

Preparing for Finishing involves sanding, cleaning and scraping, making use of hand sanding blocks, planes, scrapers, tack rags, cleaning rags, different grades of abrasive papers (this should include Aluminium oxide, Silicon Carbide, and Scotch bright pads). It may also include the use of palm, random orbital, disc, bobbin and hand held belt sanders, wide belt and narrow belt sanding machines.

Workpiece

The item of furniture to be treated as part of the finishing process. This may be a component, sub-assembly or assembly used in hand-crafted furniture. The work-piece may be veneered, made of solid wood or of wood composite.

Work specification

The set of instructions which describe the work to be carried out, including details of the preparations to be carried. The specification will also detail the time within which the process must be completed and the personal protective equipment which should be worn. Specifications may be oral or written and may involve the use of diagrams and colour cards.

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