

PROFFI221 (SQA Unit Code - FE5J 04) Prepare hand-crafted furniture for furnishing



Overview

This standard addresses the competence required to prepare hand-crafted furniture for finishing. This involves:

1. preparing work-pieces for finishing
2. applying fillers where required
3. 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

Prepare hand-crafted work-pieces for finishing using powered hand tools and machinery

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 **work-piece** and accurately identify any **faults** that are present
- P4 apply the appropriate remedial treatment to any **faults** that are present
- P5 inspect electric hand **tools** prior to use and take appropriate action if a fault is identified
- P6 inspect abrasive **machinery** prior to use and take appropriate action if a fault is identified
- P7 use appropriate electric **tools, equipment and machinery** following correct h&s procedures to achieve required **finish** (in the white)
- P8 make sure that any adhesives left on **surfaces** are completely removed
- P9 make sure that **surfaces** are clean and free of dust and debris
- P10 make sure that **surfaces** are ready to receive the specified **finish**
- P11 follow safe working procedures when:
 - P11.1 lifting and moving heavy items;
 - P11.2 using **materials, tools equipment and machinery**
- P12 handle and store the **workpiece** in ways which protect it from damage

You must be able to:

Manually prepare hand-crafted work-pieces for finishing

- P13 organise the **tools and equipment** you will need so that you can work effectively and keep your work area tidy
- P14 make sure that you have the required **work specification** and that everything you need to achieve it is available
- P15 check the **work-piece** and accurately identify any **faults** that are present
- P16 apply the appropriate remedial treatment to any **faults** that are present
- P17 sharpen and set hand **tools** to achieve required level of **finish**
- P18 inspect hand **tools** prior to use and take appropriate action if a fault is identified
- P19 use appropriate hand **tools and equipment** following correct h&s procedures to achieve required **finish** (in the white)
- P20 make sure that any adhesives left on **surfaces** are completely removed
- P21 make sure that **surfaces** are clean and free of dust and debris
- P22 make sure that **surfaces** are ready to receive the specified **finish**
- P23 follow safe working procedures when:
 - P23.1 lifting and moving heavy items;
 - P23.2 **using tools and equipment**
- P24 handle and store the **workpiece** in ways which protect it from damage

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Knowledge and understanding

You need to know and understand:

Prepare hand-crafted work-pieces for finishing using powered hand tools and machinery

- K1 the meaning of terms used in technical 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 the types and purpose of fillers and stoppers
- K7 how to recognise different grades of abrasives and what each is used for
- K8 how to handle powered tools safely in ways that protect yourself and others from risk
- K9 how to recognise the types of equipment and machinery faults that can occur and how to deal with them appropriately
- K10 the implications for your work of the HASAWA and COSHH Regulations, including where to find out about relevant risk assessment details and risk control strategies that have been set by your organisation
- K11 where work-pieces should be stored
- K12 how to protect work-pieces during handling and storage
- K13 how to dispose of waste in accordance with current legislation

You need to know and understand:

Manually prepare hand-crafted work-pieces for finishing

- K14 the meaning of terms used in technical specifications for hand-crafted furniture
- K15 what checks are carried out on work-pieces which are being prepared for finishing
- K16 what sorts of faults can occur and how to recognise them
- K17 what remedial action to take to deal with different types of faults
- K18 which tools and equipment to use to remedy different sorts of faults
- K19 how sharpen and set hand tools to achieve required level of finish
- K20 the types and purpose of fillers and stoppers
- K21 how to recognise different grades of abrasives and what each is used for
- K22 how to handle hand tools safely in ways that protect yourself and others from risk
- K23 how to recognise the types of equipment faults that can occur and how to deal with them
- K24 the implications for your work of the HASAWA and COSHH Regulations, including where to find out about relevant risk assessment details and risk control strategies that have been set by your organisation
- K25 where work-pieces should be stored
- K26 how to protect work-pieces during handling and storage
- K27 how to dispose of waste in accordance with current legislation

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Additional Information

Scope

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.

Finish

This unit covers finishes which may be rough-out, cross-sanding, smooth, open grained and full-grained.

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. Fillers applied by hand.

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 to be treated 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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