

# PROFFI304 (SQA Unit Code - FE6G 04)

## Select, prepare and apply decorative veneers



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### Overview

This standard addresses the competence required to create and fit decorative veneers on furniture. This involves:

- 1 selecting and cutting decorative veneers
- 2 preparing the groundwork for decorative veneer application
- 3 fitting decorative veneers
- 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

#### Select and prepare decorative veneers

- You must be able to:*
- P1 select **veneers** which meet the **quality** requirements in the **work specification**
  - P2 check that the **veneers** selected have no intermittent or full **faults** and set aside any which do
  - P3 match selected **veneers** for decoration, grain orientation, light refraction, burrs and cross-banding
  - P4 accurately measure and mark out the **cuts** to be made to within the specified tolerances
  - P5 minimise waste in your choice of **veneers** and in how you measure and mark them out for cutting
  - P6 handle the **veneers** in ways that avoid damaging them
  - P7 **cut** the **veneers** accurately to size and shape, keeping within the required tolerances
  - P8 accurately measure and align the **veneers** to form the required size when **jointed**
  - P9 make the **joints** of the required type
  - P10 deal promptly and effectively with any **joint faults** that arise
  - P11 use safe and effective techniques to make the **cuts**
  - P12 make sure that **veneer surfaces** to be glued are free of irregularities and are sanded and cleaned to the required **surface** finish
  - P13 store the **veneers** in appropriate **conditions** to keep them in the required state for working

#### Prepare the groundwork for veneer application

- You must be able to:*
- P14 make sure that the groundwork is secure, clean, free of debris and damage that could affect the veneering process and at the required temperature for the **adhesive** type to be used
  - P15 select the most appropriate **adhesive** for the **veneer** to be applied, the pattern to be produced and the **surface** to be veneered
  - P16 apply the **adhesive** to a coverage and depth that is appropriate to the **veneer** to be applied, the type and surface area of pattern to be produced and the **surface** to be veneered
  - P17 use an application style for the **adhesive** that is appropriate to the **veneer** to be applied, the type and surface area of pattern to be produced and the **surface** to be veneered
  - P18 handle **tools** and **adhesives** safely
  - P19 deal safely and promptly with **adhesive** spillages and splashes
  - P20 use the correct personal protective equipment for the **adhesives** and **equipment** being used
  - P21 deal promptly and effectively with any **faults** that arise
  - P22 store the **veneers** in appropriate **conditions** to keep them in the required state for working

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- You must be able to:*
- Lay decorative veneers**
- P23 check and confirm that the inlay design and type matches the **specification**
  - P24 determine the best sequence to follow to achieve the required design
  - P25 make sure that the inlay fits the groundwork laterally and vertically
  - P26 make sure that the required design is accurately reproduced
  - P27 clean the **surface** so that it is free of any excess **adhesives**
  - P28 key the **surface** using appropriate **tools** and techniques, so that the finish meets the **specification**
  - P29 deal promptly and effectively with any **faults** that arise
  - P30 follow the specified **fitting method**, using safe and effective technique
  - P31 handle the inlays in ways which avoid damaging them
  - P32 handle **adhesives** safely and apply them effectively to groundwork
  - P33 deal safely and promptly with **adhesive** spillages and splashes
  - P34 use the correct personal protective equipment for the **adhesives** and **equipment** being used
  - P35 store the inlays in appropriate **conditions** to keep them in the required state for application

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### Knowledge and understanding

*You need to know and understand:*

#### Select and prepare decorative veneers

- K1 know the differences between marquetry and parquetry
- K2 the meaning of terms used in technical specifications for veneers including burr, oyster and fiddle-back
- K3 what kinds of natural faults and handling damage can occur with veneers
- K4 how to identify faults which mean that the veneer cannot be used
- K5 why it is important to keep waste to a minimum
- K6 what characteristics are used to describe the quality of a veneer and how to identify them
- K7 how to balance and match veneers for burr and cross-banding
- K8 the growth and handling characteristics of different species of wood used as veneers, the importance of this to tensile strength, compression strength, seasoning, durability, degradation, infestation and density
- K9 how the characteristics of different wood veneers affects the way they are cut and stored
- K10 when and why quartered panel and stringed sheet jointing methods are used
- K11 what to look for when matching different types of veneers
- K12 the handling characteristics of veneers and how these can affect the jointing process
- K13 what kind of faults can occur with jointing veneers and what can be done to overcome them
- K14 quality checks that should be carried out on jointed veneers
- K15 the handling characteristics of veneers of different types and qualities and how to protect them from damage
- K16 why veneers may need to be flattened and damped during storage and the implications of not doing this
- K17 what the consequences are of inaccurate measuring and cutting
- K18 how to use cutting tools and equipment safely in ways that protect yourself and others from risk
- K19 the implications for your work of the HASAWA and COSHH Regulations, including where to find out about relevant risk assessment details and control measures that have been set by your organisation
- K20 how to dispose of waste in accordance with current legislation

*You need to know and understand:*

#### Prepare the groundwork for veneer application

- K21 the meaning of terms used in technical specifications for parquetry and marquetry
- K22 what kinds of handling damage can occur with veneers and how to avoid it
- K23 what kinds of faults can occur with parquetry and marquetry and how to

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- deal with them
- K24 how atmospheric conditions can affect the parquetry and marquetry process
  - K25 why veneers may need to be flattened and damped during storage and the implications of not doing this
  - K26 when and why different parquetry and marquetry methods are used
  - K27 the open times, shelf life and setting times of adhesives and the implications of these for the way you work
  - K28 the different types of adhesives, their absorption capabilities through inlays and veneers and their compatibility with veneers of different types
  - K29 problems associated with adhesives and how to overcome them
  - K30 where, when and how to use different types of adhesives
  - K31 why preparation is so important to the quality of the work
  - K32 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

*You need to know and understand:*

### **Lay decorative veneers**

- K33 the meaning of terms used in technical specifications for parquetry and marquetry inlays
- K34 the purpose of different tools and equipment used in fitting parquetry and marquetry inlays
- K35 the differences between parquetry and marquetry inlays and the depth of inlay required for each
- K36 what kinds of handling damage can occur with inlays and how to avoid it
- K37 what kinds of faults can occur with inlay fitting and how to deal with them
- K38 how atmospheric conditions can affect the fitting process
- K39 how inlays should be stored and why
- K40 when and why different fitting methods are used
- K41 the open times, shelf life and setting times of adhesives and the implications of these for the way you work
- K42 the different types of adhesives, their absorption capabilities through inlays and veneers and their compatibility with inlays of different types
- K43 problems associated with adhesives and how to overcome them
- K44 the uses and benefits of different ways of pressing
- K45 what the consequences are of inaccurate positioning
- K46 where, when and how to use different types of adhesives
- K47 why preparation is so important to the quality of the work
- K48 recognise window knifecut and fret cutting techniques for marquetry
- K49 identify sandshading techniques
- K50 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

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### Additional Information

#### Scope

##### **Adhesives**

Commercially available glues used in making hand-crafted furniture. These include polyvinyl acetate, urea or phenol formaldehyde, animal based glues, resorcinol, epoxy resins and cyanide acrylic based glues.

##### **Conditions**

The conditions under which veneers require to be kept includes flattening and damping them to ensure that they remain in a suitable state for working.

##### **Cuts**

This unit covers flame or crotch, burr, crown, oyster and fiddle back veneer cuts.

##### **Joints**

The joints used in making hand-crafted veneers would include the making of quartered panels, edged sheets and stringed sheets. These are influenced by the design required, which will be stated in the specifications. Joints must be accurately matched for grain orientation, colour and hue, decoration and light refraction qualities.

##### **Jointing faults**

Jointing faults can arise from misalignment of panels, marks and damage to the veneers. The person carrying out this role is responsible for identifying and making minor repairs where these can be achieved without affecting the quality of the work. Problems which cannot be resolved in that way would be reported to a senior crafts person using the correct workplace procedures.

##### **Faults**

Faults can arise as a result of misalignment, discolouration, marking or blistering of the veneer or glue penetration. The person carrying out this role is responsible for preventing and resolving faults which have occurred.

##### **Fitting method**

The inlay fitting methods covered by this unit are dry fitting, pressing and the use of adhesives.

##### **Surface**

The surfaces to which veneers are applied in the context of this unit cover top, edge, back and underneath positions, as well as curved and flat surfaces.

##### **Tools and equipment**

The tools and equipment used within hand-crafted furniture production environments for cutting and laying veneers covers veneering saws and knives, planes, measuring devices, veneering tape, veneering hammers, heated and unheated presses, heated cauls, adhesive rollers, edge clamps, veneer pins, adhesive pots, brushes and gluesticks, flat irons and sand bags.

##### **Veneers**

Veneers used in making hand-crafted furniture are made of natural timber. Typical timbers would include, walnut, oak, mahogany, cherry and maple. Other materials may also be used, such as mother-of-pearl, brass and silver nickel.

##### **Veneering methods**

The veneering methods covered by this unit are hand-laid and mechanical

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pressing.

#### **Work specification**

The set of instructions which describe the work to be carried out, including details of the qualities of the veneer, the dimensions of the veneered area and the nature of the joints to be produced. The specification will also detail the surfaces to be veneered be produced, the decorative patterns to be produced. Specifications may be written, drawn or passed on orally.

#### **Quality**

The quality of a veneer can be described in terms of the grain fineness and orientation, its colour, hue and decoration, moisture content and light refraction characteristics. Veneers to be jointed require to be matched for straight, slip laid, leaf laid, book match and edge veneering, taking account of these qualities and of burrs and cross-banding.

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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;