

# PROFFI203 (SQA Unit Code - FE55 04)

## Join and joint veneers



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### Overview

This standard addresses the competence required to produce sheet veneers for use in furniture production. This involves:

- 1 Checking and preparing components
- 2 Prepare and assemble components to specification
- 3 Working in ways which maintain your own and others' safety
- 4 Finishing and checking the assembly conforms to specifications

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

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### Performance criteria

#### Select and cut sheet veneers

*You must be able to:*

- P1 select **veneers** which meet the colour, grain, grade and quality requirements in the **work specification**
- P2 check that the **veneers** selected have no intermittent or full faults
- P3 follow specified procedures to set aside, identify and report unsuitable **veneers**
- 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 set up the **cutting equipment** to accurately and cleanly cut the required length and width of veneers
- P8 control the cutting process so that the **veneers** produced are of accurate size and shape
- P9 deal promptly with any **equipment problems** that arise, reporting any which you cannot solve
- P10 follow safe working procedures when setting up and operating the cutting **equipment**
- P11 transfer surplus and cut **veneers** to designated storage locations
- P12 complete the cutting process within the required time

*You must be able to:*

#### Join sheet veneers

- P13 match **veneers** for grain, colour and quality to meet the design requirements
- P14 accurately measure and align the **veneers** to form the required design when **jointed**
- P15 set up the **jointing equipment** to ensure that edges are correctly aligned and **jointed** to the required tolerances, without distortion of the **veneer**
- P16 control the **jointing** process so that the results meet the specified quality
- P17 handle the **veneers** in ways which avoid damaging them
- P18 deal promptly with any **equipment problems** and **joint faults** that arise, reporting any which you cannot solve
- P19 follow safe working procedures when setting up and operating the **jointing equipment**
- P20 check and confirm that the **veneers** meet the specification before passing them on
- P21 transfer completed **veneers** to the designated storage location
- P22 complete the process within the required time

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### Knowledge and understanding

*You need to know and understand:*

#### Select and cut sheet veneers

- K1 the meaning of terms used in technical specifications for veneers
- K2 what kinds of natural faults and handling damage can occur with veneers
- K3 how to identify faults which mean that the veneer cannot be used
- K4 why it is important to keep waste to a minimum
- K5 the handling characteristics of veneers and how to protect them from damage during cutting and storage
- K6 what the consequences are of inaccurate measuring and cutting
- K7 how to set up cutting equipment safely in ways that protect yourself and others from risk
- K8 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
- K9 what your personal limitations are in respect of the PUWER regulations 1998
- K10 the types of equipment fault that can occur and how to recognise and deal with them
- K11 what work rate you are expected to achieve

#### Join sheet veneers

*You need to know and understand:*

- K12 the meaning of terms used in technical specifications for veneers
- K13 when and why quartered panel and stringed sheet jointing methods may be used
- K14 what to look for when matching for straight, figured or burr veneers
- K15 the different types of furniture product which use veneers
- K16 the implications of different types of veneer and veneer design for the jointing process
- K17 the handling characteristics of veneers and how to protect them from damage during jointing and storage
- K18 what kind of faults can occur with jointing veneers and what can be done to overcome them
- K19 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
- K20 what your personal limitations are in respect of the PUWER regulations 1988
- K21 quality checks that should be carried out on completed veneers and what the implications are of passing on work that does not pass the checks
- K22 work rates that you are expected to meet

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### Additional Information

#### Scope

##### **Equipment**

The machine equipment used within modern furniture production environments for cutting and jointing veneers. Cutting equipment includes standard cross cut and machines and guillotines. Jointing equipment includes stitching machines and tape machines.

##### **Cuts**

This unit covers flame, crown and quarter cut veneer cuts.

##### **Equipment problems**

These relate to non-functioning, missing or damaged equipment or equipment parts (e.g. blades). The person carrying out this work would be expected to deal with any equipment problem for which maintenance engineers are not required. Where a problem does require a maintenance engineer, the person would be expected to report the problem to a more senior person.

##### **Veneers**

Veneers used in furniture production are made of natural timber and may be of feather, burr, flame or crown designs. Typical timbers would include walnut, mahogany, cherry, pine, man made veneers, laminates and foils.

##### **Joints**

The joints used in modern veneer production processes may include the making of quartered panels and stringed sheets. These are influenced by the design required, which will be stated in the specifications. Joints must be accurately matched for grain, colour and quality of veneer and edges must accurately align to and abut each other without distortion.

##### **Work specification**

The set of instructions which describe the work to be carried out, including details of the qualities (colour, grain, grade) of the veneer to be used, the nature of the joints to be made and the size and shape dimensions to be achieved. The specification will also detail the time within which the production of sheet veneers must be completed. In the context of these standards, tolerances to within +/- 0.5 mm would be expected.

##### **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 using the correct workplace procedures.

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## Join and joint veneers

**Developed by** 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;