

PROFFI207 (SQA Unit Code - FE41 04) Apply finishing processes to production furniture



Overview

This standard addresses the competence required to apply finishing processes to production furniture. This involves:

- 1 applying sealing and polishing coats
- 2 checking that the finished item conforms to the specification
- 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

Apply stains, seals and finishes

You must be able to:

- P1 ensure that extraction facilities are operating effectively before working with solvent based **materials**
- P2 apply the **coating** evenly and to the required finish
- P3 use **tools and equipment** safely and effectively
- P4 deal promptly with **faults** and minor **surface defects** which occur
- P5 report any **faults** or **defects** which prevent the **workpiece** being finished within the production process
- P6 deal promptly and safely with spillages and splashes
- P7 allow specified drying times between multiple coats
- P8 make sure that surfaces are clean and free of excess **materials** and surface irregularities between multiple coats
- P9 follow safe working practices at all times

Check finish and complete necessary documentation

You must be able to:

- P10 complete finish according to **work specification**
- P11 check and confirm that the specified colour, shade and finish has been achieved according to the **work specification**
- P12 deal promptly with any problems that arise, reporting those that you cannot solve
- P13 make sure that unused materials are accurately labelled and return them to the designated storage areas
- P14 dispose of wastes safely using designated procedures and disposal areas
- P15 transfer the finished workpiece to the designated storage location
- P16 complete the process within the required time
- P17 complete production records accurately and clearly

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Knowledge and understanding

You need to know and understand:

Apply stains, seals and finishes

- K1 the meaning of terms used in technical specifications for furniture coating materials
- K2 the different types of coating materials used, what each is for and when it is used
- K3 what the drying times are of different materials
- K4 when and why natural and forced drying methods are used
- K5 what the lacquer curing process involves
- K6 why it is important to use the correct standards when checking for colour and shade
- K7 what kinds of faults and minor surface defects can occur in the application of coatings and what steps can be taken to deal with them
- K8 the implications for your work of the HASAWA, COSHH Regulations and the Environmental Protection Act, including where to find out about relevant risk assessment and control measures that have been set by your organisation
- K9 what personal protective equipment should be worn when handling coating materials and why
- K10 why there needs to be adequate ventilation and extraction of fumes when dealing with solvent based materials and who to report to, if this is not working
- K11 why it is important to deal promptly, safely and correctly with splashes and spillages of materials
- K12 why it is important to label unused materials clearly and accurately

Check finish and complete necessary documentation

You need to know and understand:

- K13 the meaning of terms used in technical specifications for furniture coating materials
- K14 the importance of checking the workpiece is finished according to the specification
- K15 how to deal with problems, and who to report unsolvable problems to
- K16 the implications for your work of the HASAWA, COSHH Regulations and the Environmental Protection Act, including where to find out about relevant risk assessment and control measures that have been set by your organisation
- K17 what your personal limitations are in respect of the PUWER regulations 1998
- K18 what personal protective equipment should be worn when handling coating materials and why
- K19 why it is important to deal promptly, safely and correctly with splashes and spillages of materials
- K20 why it is important that waste materials, including rags, are disposed of

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safely

- K21 what information is recorded on production records and why it is important that these are kept up to date and accurate
- K22 what work rates you are expected to meet

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Additional Information

Scope

Coating materials

Stains, sealers, basecoats, lacquers and thinners applied as coatings as part of the finishing process in furniture production. They can be based on oil, water or mixed solvents.

Tools and equipment

Coatings may be applied using rags and hand-held spray guns. Control of machine operations is dealt with in another unit.

Faults

The kinds of faults which could occur would include uneven applications, poor wetting, blotching, marking of the surface, drip, runs, streaks, mismatched shading or poor surface finish. The person carrying out this role is responsible for identifying and dealing with faults which can be treated without disruption to the production process. Problems which cannot be resolved in that way would be reported using the correct workplace procedures.

Production records

These may be written or electronic. Typically they will involve the individual in completing a simple form, much of which may be of a tick-box format, requiring only a limited amount of free text to be entered.

Surface defects

Surface defects can occur during the finishing process. They may take the form of nibs, holes, scratches, chips, dents, cracks, blisters and blemishes. If minor, they can be overcome using sanding equipment and abrasives. If major they require the workpiece to be removed and reported.

Workpiece

The item of furniture to be coated as part of the finishing process. This may be a component, sub-assembly or assembly used in furniture production. The workpiece to be treated may be made of natural timber (solid or veneered) or of wood composite.

Work specification

The set of instructions which describe the work to be carried out, including details of the types, application area and characteristics (colour, viscosity, formulation) of the coatings to be applied, the number of coats to be applied and the drying requirements (natural or forced). 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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Developed by Proskills

Version number 1

Date approved April 2008

Indicative review date April 2013

Validity Current

Status Original

Originating organisation Proskills

Original URN 207

Relevant occupations Paper and wood machine operatives, Furniture maker and other craft woodworkers, Upholsterers, Labourers build and woodworking trades

Suite Furniture, Furnishings and Interiors

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,