

PROFFI236 (SQA Unit Code - FE58 04) Maintain tools and equipment used in furniture making and installation



Overview

This standard addresses the competence required to maintain hand tools and equipment used in the making and installation of furniture. This involves:

- 1 checking the condition of tools
- 2 carrying out routine maintenance
- 3 bringing tools into working condition
- 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

Check and maintain the condition of hand tools

You must be able to:

- P1 check the condition of **tools** on a regular basis
- P2 **sharpen** cutting edges to keep them in effective **working condition** as required for your craft
- P3 oil and grease **tools** as required to prevent them being **damaged** and to maintain their effectiveness
- P4 keep **tools** clean and free from dust and debris
- P5 accurately identify **tools** that are **damaged** and remove them for repair
- P6 make sure that **tools** are stored away safely and tidily in the designated locations when not in use
- P7 follow safe working practices when handling **tools, equipment**, oils and greases
- P8 wear the appropriate **personal protective equipment (ppe)** for the work you are doing

Bring tools into working condition

You must be able to:

- P9 make an accurate assessment of what needs to be done to bring the **tool** back into **working condition**
- P10 promptly report any **tools** which are beyond repair
- P11 use the appropriate **equipment** and **techniques** to achieve the required tolerances
- P12 use suitable tests to check the condition of the **tool**
- P13 confirm that the **tool** is of the required sharpness and performance accuracy before returning it as ready for use
- P14 follow safe working practices when handling **tools** and materials
- P15 wear the appropriate **personal protective equipment (ppe)** for the work you are doing

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Knowledge and understanding

You need to know and understand:

Check and maintain the condition of hand tools

- K1 the different sorts of tools that are used in making and installation components by hand
- K2 what to look for when checking the condition of different sorts of tools
- K3 what the implications are of not keeping cutting edges sharp
- K4 where and how often to oil and grease tools and what sorts of oils/greases to use
- K5 what the implications are of not keeping tools clean and free of dust and debris
- K6 why it is important to put tools away properly
- K7 how to recognise tools that are damaged and need more than routine maintenance to bring them into working condition
- K8 the types of damage that can occur to tools and how to recognise them
- K9 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
- K10 the potential hazards that can arise from defective and faulty tools

You need to know and understand:

Bring tools into working condition

- K11 the different sorts of tools that are used in making wooden furniture by hand
- K12 what to look for when assessing the condition of different sorts of tools and what needs to be done to bring them into working state
- K13 what the implications are of not keeping cutting edges sharp
- K14 the purpose of different materials and techniques and when to use them
- K15 the types of damage that can occur to tools and how to recognise damage that can be repaired as well as damage that cannot be repaired
- K16 how to test tools for sharpness and performance accuracy
- K17 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
- K18 the potential hazards that can arise from defective and faulty tools

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Additional Information

Scope

Damage

Damage can arise from wear, misuse or from faults in the materials being worked. Examples might include blunting and notching of cutting edges, missing or bent teeth on saws or frayed or cut electric cables.

Sharpening

Sharpening is carried out using grinding stones, strops, files and slip stones.

It is expected that care and maintenance of tools should reflect those in general use within the craft.

For example furniture makers may be required to use sharpening techniques using traditional oil stones for producing a sharpening angle to edges such as mortice, firmer and bevel edge chisels, smoothing and block planes. Fine tuning of hand tools such as castings and components of planes may be required for traditional furniture making crafts which involve working to fine tolerances.

Techniques

Sharpening, honing, grinding and fettling.

Tools and equipment

Hand tools, electric and air-powered tools, measuring devices, workshop tools, devices and equipment.

Furniture making crafts may be required to sharpen a range of hand tools which could include: knives, planes, chisels, scrapers, gauges and turning and carving tools.

Personal protective equipment (PPE)

Ear, eye and respiratory protection as well as protective gloves and footwear.

Working condition

The level of sharpness and performance accuracy needed to produce hand-crafted furniture accurately and to a high quality finish. Typically this involves tolerances of within +/- 2mm for sharp edges, +/- 2 degrees for angles and sharpness of drill bits.

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