
Overview

This standard is about making tools by forging. Tools are produced to meet a specification and need to be capable of being used for the work they were made for.

In order to 'make shoemaking tools' you will need to select materials and maintain the forge at the working temperature suitable for the work to be undertaken. You will be able to use one of the following types of farrier's forge:

1. solid fuel
2. gas

You will need to be able to cut material to form the required sections and you will be able to use various forging tools and equipment in order to make and use the following tools:

1. Pritchel
2. fuller
3. punches
4. stamps
5. tongs

You will be able to assess and maintain the hand tools used in the forging procedure.

You must check that the item you have made meets the specification. You will also need to identify any faults in equipment and deal with them appropriately.

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Make shoemaking tools

Performance criteria

- You must be able to:*
- P1 check appropriate hand tools and equipment are fit for the production of shoemaking tools and rectify any deficiencies
 - P2 safely cut off sufficient and appropriate material for the manufacture of the specified tool
 - P3 maintain the forge fire at the temperature necessary to work the materials selected
 - P4 handle materials safely using the appropriate tools
 - P5 forge sections to meet the specification using appropriate techniques
 - P6 check the finished item against the specification and make any necessary adjustments to meet that specification
 - P7 make the tool within a specified time
 - P8 maintain health and safety of yourself and others throughout

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Knowledge and understanding

You need to know and understand:

Materials

- K1 how to recognise specific bar stock
- K2 how to identify specific grades of steel for tool making
- K3 properties of metals when cold and when being worked hot
- K4 hazards likely to be encountered when working with hot metals

You need to know and understand:

Tools

- K5 the types of farriery tools, design, use and maintenance
- K6 the types of forging tools and their uses
- K7 safe use of cutting equipment

You need to know and understand:

Work Methods

- K8 how to use specific parts of the anvil to shape and form metal
- K9 forging techniques
- K10 annealing and hardening techniques
- K11 the working parameters of steels used in tool making
- K12 how to use both solid fuel and gas forges
- K13 precautions to take when using the forge and why they must be taken

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Suite Farriery

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