

### Overview

This standard is about making horseshoes by forging. In order to 'make horseshoes' you will need to select materials and tools 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 cut and handle materials safely and will be able to make shoes using forging techniques and avoid metal wastage. You will be able to use both concave fullered and flat metal to produce shoes for both fore and hind feet.

You will be able to make the following types of pairs of shoes:

1. fullered concave
2. plain stamped
3. hand fullered

You will be able to make shoes with the following variants:

1. toe clip
2. side clip
3. rolled toe
4. set toe
5. stud holes
6. extensions and heeled shoes i.e. spaving, caulkin, graduated

You will know how to make shoes to specification for a variety of types of equine which could include:

1. pony
2. hunter
3. driving horse
4. donkey
5. competition horse
6. draught horse
7. race horse
8. riding horse
9. mule

You will be able to evaluate the finished shoe against the specification and make adjustments where required.

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## Make horseshoes

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### Performance criteria

*You must be able to:*

- P1 select, check and maintain hand tools and equipment are fit for the purpose they are to be used for and rectify any deficiencies
- P2 select and cut material of suitable section and length for the task
- P3 maintain the forge fire at the temperature necessary to work the materials selected
- P4 handle materials safely using the correct tongs for the work
- P5 make pairs of shoes for fore and hind feet for a variety of equines, including variants
- P6 make shoes that are balanced and level
- P7 make nail holes correctly positioned, shaped, and with appropriate pitch
- P8 forge heels, boxed and safed, to specification
- P9 fullering, where applicable, to be of correct depth and shape to accommodate nail fit, and position, relative to section and use
- P10 make shoes within a specified time
- P11 evaluate the finished shoes against the specification and make any necessary adjustments to meet the requirements
- P12 maintain the 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 different metals and alloys
- K3 the properties of metals/alloys when cold and when being worked hot
- K4 how to measure materials in order to produce specified sizes of shoe

*You need to know and understand:*

#### **Tools**

- K5 types of forging tools, their uses and maintenance
- K6 how to recognise the correct tool to make the shoe to specification

*You need to know and understand:*

#### **Work methods**

- K7 use of specific parts of the anvil to shape and form metal/alloy
- K8 forging techniques

*You need to know and understand:*

#### **Shoes**

- K9 range and types of shoes to be made
- K10 working parameters of metals / alloys used in the making of shoes
- K11 methods of clipping shoes and punching holes in shoes

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**Suite** Farriery

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