



**Australian Government**

# **Assessment Requirements for ACMFAR314**

## **Perform routine welding techniques for farriery activities**

**Release: 1**

# Assessment Requirements for ACMFAR314 Perform routine welding techniques for farriery activities

## Modification History

Release	Comments
Release 1	This version released with ACM Animal Care and Management Training Package Version 2.0.

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has:

- used manual metal arc welding (MMAW) process to complete two different welded shoe types on at least two separate occasions
- used gas metal arc welding (GMAW) process to complete two different welded shoe types on at least two separate occasions
- for each task the individual must have:
  - interpreted specifications from drawings, sketches and verbal or written job instructions
  - cleaned and prepared materials to specifications
  - set up welding equipment, selected appropriate consumables and adjusted settings to suit application
  - welded steel and aluminium to comply with specifications
  - cleaned welds for slag and splatter.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- safe welding practices and procedures, including:
  - use of fire and dangers to operators
  - use of bottled gas
  - dry and ventilated location
  - emergency procedures
  - chemical content of fumes emitted by welding processes
  - housekeeping
- hazards associated with welding, including:
  - arc eye and exposure to ultraviolet light

- metal vapours, welding electrodes and welded components
- molten metal spatter and fire danger
- uses and purposes of various metals, including:
  - properties and characteristics of commonly used metals and materials used in farriery activities
  - basic metallurgy principles
  - distortion control techniques for various metals
- material and equipment preparation, including:
  - equipment set-up and settings for MMAW and GMAW
  - appropriate welding consumables for MMAW and GMAW
- processes, properties and differences between MMAW and GMAW, including:
  - current and voltage settings
  - gas flow rates wire diameters, wire feed speed and other variables to suit typical situations
  - fuel gas properties and applications
  - shielding gas properties and applications
  - weld characteristics
- post-welding treatments
- safe work practices, including:
  - manual handling
  - work health and safety requirements
  - types, purpose and use of personal protective equipment (PPE)
  - safe disposal of waste materials.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - a workplace or environment that accurately reflects performance in a real workplace setting
- resources, equipment and materials:
  - MMAW welding equipment
  - GMAW welding equipment
  - PPE correctly fitted and applicable to tasks for individual
  - protective screens and fume extraction system
  - materials and consumables for MMAW and GMAW welding processes
- specifications:
  - work instructions for welding tasks.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103>