Modification history

| RELEASE | COMMENTS |
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| Release 1 | This version released with the ACM Animal Care and Management Training Package Version 1.0. |

| ACMFAR305 | Perform welding tasks using a forge |
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| APPLICATION | This unit of competency describes the skills and knowledge required to determine welding requirements, prepare materials and carry out routine welding of either mild steel or aluminium using a forge. Welding in this unit is not required to meet the *AS/NZS 1554 General Purpose Standard.*  The unit applies to individuals who use specialised knowledge and technical skills to perform farriery services across different equine industry sectors.  No occupational licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. |
| PREREQUISITE UNITS | Nil |
| UNIT SECTOR | Farriery (FAR) |

| ELEMENT | PERFORMANCE CRITERIA |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Identify work requirements | 1.1 Interpret instructions to determine task and time requirements  1.2 Identify welding or bending requirements from specifications  1.3 Identify locations of welds according to specifications |
| 2. Prepare materials for welding | 2.1 Calculate the amount of metal required for bending or welding  2.2 Clean and prepare materials using tools and techniques appropriate for task  2.3 Select and correctly fit personal protective equipment |
| 3. Prepare and manage fire for welding | 3.1 Select fuel and prepare tools to manage the fuel source  3.2 Set up forge according to workplace procedures  3.3 Manage the fire to maintain its effectiveness as a forge  3.4 Identify the correct forge heat for particular operations  3.5 Assess and control risks relating to preparing and managing fire for welding |
| 4. Carry out farriery welding tasks using a forge fire | 4.1 Apply and control heat to the material to be forged  4.2 Carry out farriery welding tasks using welds and tools appropriate for task  4.3 Extinguish the forge fire safely and complete clean-up procedures  4.4 Dispose of waste material safely according to workplace procedures |

| FOUNDATION SKILLS  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
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| Skill | Description |
| Reading | * Interpret instructions and diagrams to determine welding requirements |
| Numeracy | * Calculate the amount of metal required for bonding and welding * Estimate time to complete activities |
| Navigate the world of work | * Take responsibility for adherence to work health and safety requirements relating to own role and work area |
| Get the work done | * Plan, sequence and prioritise tasks and assemble equipment to carry out welding tasks, judging correct welding heat to perform process on selected material * Monitor safety and risk factors during welding operations |

| UNIT MAPPING INFORMATION | | | |
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| Code and title current version | Code and title previous version | Comments | Equivalence status |
| ACMFAR305 Perform welding tasks using a forge | ACMFAR305A Perform welding tasks using a forge | Updated to meet Standards for Training Packages | Equivalent unit |

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

| TITLE | Assessment requirements for ACMFAR305 Perform welding tasks using a forge |
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| 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 performed welding tasks using a forge on at least three occasions, including:   * identifying welding requirements * preparing materials for welding * selecting and correctly fitting personal protective equipment (PPE) * preparing and managing fire for welding * carrying out farriery welding tasks using a forge * safely extinguishing forge and disposing of ash and debris according to workplace procedures. | |

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| 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:   * principles and practices for welding using a forge: * materials to be welded and how they react to heat * process of welding by forge-produced heat * range, use and availability of materials and equipment * regulations covering farriers in specific equine industries * safe work practices including: * manual handling * using PPE * use of fire and dangers to operators * use of bottled gas * types of forge and forge fuel * work health and safety (WHS) legislative requirements and farriery industry codes of practice. |

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| ASSESSMENT CONDITIONS |
| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace or simulated environment that accurately reflects performance in a real workplace setting * resources, equipment and materials: * fire forge or gas forge and associated tools and equipment * personal protective equipment (PPE) correctly fitted and applicable to tasks for individual * materials for welding.   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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