Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 2.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0 and meets the Standards for Training Packages 2012. |

| AHCMOM316 | Refuel machinery or vehicle |
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| Application | This unit of competency describes the skills and knowledge required to receive and store bulk fuel, prepare for refuelling, refuel machinery or vehicle and complete refuelling.  The unit applies to individuals who apply operating principles to the refuelling of machinery or vehicles under broad direction, and take responsibility for their own work.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil. |
| Unit Sector | Machinery operation and maintenance (MOM) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1.Receive and store bulk fuel | 1.1 Identify regulatory and industry requirements for the receipt and storage of bulk fuel, and refuelling operations  1.2 Identify workplace health and safety hazards, assess risks and implement suitable controls  1.3 Identify dangers of volatile fuel liquids and vapours  1.4 Locate and check firefighting and spill response equipment, and replace faulty equipment  1.5 Ensure facilities for storage of bulk fuel meet national standards  1.6 Check bulk fuel storage facilities to ensure fuel quality is maintained during storage  1.7 Check storage facilities and refuelling equipment for leaks  1.8 Receive bulk fuel into storage according to regulatory requirements and workplace procedures  1.9 Complete documentation for receipt of bulk fuel  1.10 Monitor bulk fuel during storage to maintain fuel quality and usage |
| 2.Prepare for refuelling | 2.1 Select, correctly fit, use and maintain personal protective clothing and equipment  2.2 Select fuel based on machinery or vehicle use and manufacturer specifications  2.3 Ensure appropriate firefighting and spill response equipment are accessible  2.4 Ensure appropriate refuelling equipment is available and meets national standards  2.5 Check and secure refuelling equipment  2.6 Position and secure machinery or vehicle for refuelling |
| 3.Refuel machinery or vehicle from fixed storage | 3.1 Open tank valves if necessary  3.2 Refuel machinery or vehicle according to regulatory requirements and manufacturer specifications  3.3 Ensure there is no residual fuel in fuel transfer equipment such as hoses  3.4 Contain spills and mitigate environment or safety dangers according to legislation and workplace procedures  3.5 Check fuel levels  3.6 Close and secure tank valves if necessary |
| 4.Refuel machinery or vehicle from portable containers | 4.1 Ensure only approved containers are used to transport decanted fuel  4.2 Ensure portable containers being towed are secure  4.3 Check containers to ensure fuel quality is maintained  4.4 Decant fuel from fixed storage into containers ensuring risks are minimised  4.5 Ensure there is no residual fuel in fuel transfer equipment for all decanting procedures  4.6 Transport containers to worksite according to regulation and workplace procedures  4.7 Decant fuel from portable containers using appropriate equipment  4.8 Contain spills and mitigate environment or safety dangers according to legislation and workplace procedures |
| 5.Complete refuelling | 5.1 Clean, maintain and store refuelling equipment and containers  5.2 Complete documentation and records |

| 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 textual information from a range of sources to identify relevant and key information about workplace operations |
| Writing | * Complete operational records |
| Numeracy | * Estimated, calculated and recorded quantities of fuel |
| Navigate the world of work | * Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility |

| Range Of Conditions  This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. | |
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| Personal protective clothing and equipment must include: | * protective clothing * protective eyewear * unlined rubber or plastic gloves * neoprene or nitrile boots * high visibility clothing * safety equipment and personal protective clothing and equipment applicable to the task being undertaken. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM316 Refuel machinery or vehicle | Nil | No equivalent unit. Minor changes to performance criteria, foundation skills and range of conditions. | Equivalent |

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| Links | Companion Volumes, including Implementation Guides are available at VETNet https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCMOM316 Refuel machinery or vehicle |
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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, on at least one occasion, the individual has:   * Identify workplace health and safety hazards, assess risks and implement suitable controls * received and stored bulk fuel * prepared for refuelling * refuelled machinery or vehicle from fixed storage * refuelled machinery or vehicle from portable containers * completed refuelling * minimised environmental impacts associated with machinery and vehicle refuelling * followed work health and safety procedures. | |

| Knowledge Evidence |
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| 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:   * regulatory and industry requirements for the receipt and storage of bulk fuel, and refuelling operations * workplace health and safety procedures relevant to machinery and vehicle refuelling * types, use and maintenance of personal protective clothing equipment * types, features and use of fuels for machinery and vehicles * requirements, types, features and use of bulk fuel receival and storage facilities * regulatory requirements and workplace procedures relevant to storage of fuels * workplace procedures for checking fuel storage facilities, refuelling equipment and fuel transfer equipment for leaks * risks and dangers associated with volatile fuel liquids and vapours, and mitigation and protection measures * types, features, use and maintenance of firefighting and spill response equipment * types, features, use, maintenance and storage of fuel transfer and refuelling equipment * workplace procedures for refuelling of relevant machinery and vehicles * methods and procedures for securing portable fuel containers during transport * procedures for emptying fuel transfer equipment such as hoses and checking that they are empty of residual fuel * legislation and workplace procedures relevant to containment methods and equipment for fuel spills * workplace procedures applicable to work health and safety and environmental and sustainability procedures relevant to mitigation and protection measures for fuel spills. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represents workplace conditions * individual must not be under the influence of alcohol or drugs * individual must not be taking any medication (prescribed or otherwise) that may impair judgement * individual must not be in a fatigued state when refuelling machinery or vehicles * resources, equipment and materials: * a range of machinery or vehicles * refuelling equipment * fuel * safety equipment and personal protective clothing and equipment applicable to the task being undertaken * specifications: * machinery or vehicle operation and maintenance manuals * regulations, legislation, industry requirements, manufacturer specifications and workplace procedures relevant to machinery and vehicle refuelling and fuel storage requirements * timeframes: * according to the job requirements.   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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