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. |

| AHCMOM212 | Operate quad bikes |
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| Application | This unit of competency describes the skills and knowledge required to prepare, operate and complete quad bike operations.  The unit applies to individuals who apply operating principles to the operation of quad bikes to undertake routine work under general supervision with limited autonomy and accountability.  Vehicle must be operated according to relevant State/Territory licensing authority vehicle licence requirements and regulations.  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.Prepare a quad bike for operation | 1.1 Confirm with supervisor activity to be undertaken and that the vehicle is fit for purpose  1.2 Identify potential hazards and risks and implement safe working practices  1.3 Select and wear quad bike helmets that are fit for purpose  1.4 Select, correctly fit, use and maintain personal protective equipment  1.5 Conduct routine pre-operational checks on quad bike according to operation and maintenance manual and report faults or malfunctions to supervisor  1.6 Identify and confirm workplace safety plan no go areas with supervisor  1.7 Identify quad bike applications, loads and fixed attachments according to operation and maintenance manual |
| 2.Operate a quad bike | 2.1 Start up, steer, manoeuvre, position and stop quad bike in a controlled manner  2.2 Identify situations where quad bike active riding techniques are required  2.3 Apply quad bike active riding techniques to preposition the operators body to assist bike stability  2.4 Identify and avoid riding surfaces, terrains and slopes that are dangerous to safe operation  2.5 Operate and manoeuvre over a variety of surfaces, slopes and terrain safely  2.6 Modify quad bike operation according to local weather conditions  2.7 Identify environmental and any biosecurity implications associated with quad bike operation and minimise impact |
| 3.Complete quad bike operation | 3.1 Shut down quad bike  3.2 Park up and secure quad bike  3.3 Identify and report malfunctions, faults, irregular performance or damage to supervisor  3.4 Remove and store keys  3.5 Unload, load and secure quad bike safely |

| 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 |
| Oral communication | * Use clear language to report malfunctions, faults and irregular performance or damage * Participate in verbal exchanges to respond to questions and clarify information |
| Numeracy | * Calculate quantities of vehicle fluids including oil and fuel * Calculate load volumes and weights * Identify correct tyre pressure |
| 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 equipment must include: | * a suitable quad bike helmet * enclosed toe shoes * safety equipment and personal protective equipment applicable to the task being undertaken. |
| Pre-operational checks must include: | * vehicle damage and serviceability * fuel * brake effectiveness * throttle smooth operation and self-closing return * tyres, including: * pressure * condition * vehicle controls. |
| Quad bike active riding techniques must include: | * prepositioning, correct timing and appropriate adjustment of operator body weight, including: * positioning of operator body weight forward when going uphill * positioning of operator body weight rearward when going downhill * positioning of operator body weight centrally when cornering at very slow speeds, and transition to: * positioning of operator body weight to the inside of the turn when cornering at higher speeds * positioning of operator body weight to the uphill side when riding across slopes * standing up to improve situational awareness and ability to exercise active riding technique, when: * operating in restricted visibility situations * operating in rough terrain * crossing obstacles * avoiding hazards. |
| Unload, load and secure quad bike must include at least one of the following: | * trailer * transportation device * on site vehicle storage. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM212 Operate quad bikes | AHCMOM212A Operate quad bikes | This unit is not equivalent to AHCMOM212A Operate quad bikes. Significant changes to performance criteria, foundation skills and range of conditions. | No 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=c6399549-9c62-4a5e-bf1a-524b2322cf72> |

| TITLE | Assessment requirements for AHCMOM212 Operate quad bikes |
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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 operated a quad bike in a range of riding surface conditions and in a range of terrains appropriate for the safe use of quad bikes using safe working practices and has:   * identified hazards and risks associated with quad bike areas of operation * Identified and confirmed quad bike no go areas * identified and avoided riding surfaces, terrains and slopes that are dangerous to safe operation of quad bikes * selected and worn quad bike helmet that was fit for purpose * selected, correctly fit, used and maintained personal protective equipment * operated and manoeuvred quad bikes in a range of riding surface conditions and terrain conditions including uneven and sloping terrain * started, steered, manoeuvred, positioned and stopped a quad bike in a controlled manner * identified circumstances when quad bike active riding techniques should be applied * applied quad bike active riding techniques to preposition operator body weight to assist bike stability * unloaded, loaded and secured quad bike safely * minimised environmental impacts associated with quad bike operation * followed industry and workplace biosecurity 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:   * hazards and risks associated with quad bike areas of operation including quad bike no go areas * components, controls and features of quad bikes and their functions * quad bike functional applications, including appropriate selection of machine for task * operating principles and operating methods of quad bikes * quad bike active riding techniques, including both when and when not to apply quad bike active riding techniques * workplace safety plan and operators manual * impacts and consequences of substandard environmental and biosecurity practices * load limits and attachments specific to quad bike capabilities and the effects to dynamic stability of the quad bike including: * weight distribution * load security * liquid or shifting loads * effect of load when operating on uneven or steep terrain * loading and unloading safely from a trailer, transportation device and site storage, including use of: * tie down devices * vehicle ramps * loading surfaces and angle * effects of different riding surfaces and terrain conditions on the operation of quad bikes * variations in State/Territory regulations and legislation that may apply in regard to quad bike use * environmental impacts associated with operating quad bikes * industry and workplace biosecurity procedures. |

| 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 * no passengers on single seat quad bikes * no riders under 16 years of age on adult sized quad bikes * no towing * helmets must be worn whilst operating quad bikes * 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 * resources, equipment and materials: * quad bike * vehicle fuel * a suitable quad bike helmet * enclosed toe shoes * safety equipment and personal protective equipment applicable to the task being undertaken * specifications: * quad bike operation and maintenance manual * industry and workplace biosecurity procedures applicable to quad bike operation * relationships: * supervisors * 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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