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 operate and maintain quad bikes as well as load and unload them onto trailers or other vehicles used for their transport or into site storage.  All work must be carried out to comply with safe working practices, work health and safety requirements, manufacturer specifications, operator manuals and sustainability practices.  This unit applies to individuals who work under general supervision and exercise limited autonomy with some accountability for own work. They undertake defined activities and provide solutions to a limited range of predictable problems.  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 the activity to be undertaken and that the vehicle is fit for purpose  1.2 Identify and control risks and hazards to self and others and implement safe working practices  1.3 Select and wear 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 operators manual and report faults or malfunctions for repair  1.6 Identify and confirm no go areas, applications, loads and attachments from workplace safety plan and operators 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 to minimise risk to safety  2.6 Identify weather conditions, environmental and any biosecurity implications associated with quad bike operation and minimise impact |
| 3.Conduct shut down procedures | 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  3.4 Remove and store keys  3.5 Unload, load and secure quad bike safely to a trailer, transportation device or site storage |

| 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 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 safely must include: | * tie down device selection * vehicle ramps * loading surface and angle * 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 * select 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 * appropriately selected when to apply and applied quad bike active riding techniques to preposition operator body weight to assist bike stability * unloaded, loaded and secured quad bike safely. | |

| 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 * consequences of poor 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 or other transportation device * effects of different riding surfaces and terrain conditions on the operation of quad bikes * how State/Territory regulations and legislation may vary in regard to quad bike use. |

| 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 * tie down devices * vehicle ramps * quad bike helmet * enclosed toe shoes * safety equipment and personal protective equipment applicable to the task being undertaken * specifications: * quad bike manufacturer specifications and operator manuals * relationships: * interactions either with real team members/supervisors or in realistic scenarios or roleplays * 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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