



Australian Government

AHCMOM217 Operate quad bikes

Release: 1

AHCMOM217 Operate quad bikes

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to safely operate quad bikes including undertaking pre-start checks and shut down procedures.

The unit applies to individuals who operate 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.

Pre-requisite Unit

Nil

Unit Sector

Machinery operation and maintenance (MOM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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 to manage risks 1.3 Select and maintain personal protective equipment according to workplace safety requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Use, wear and correctly fit personal protective equipment including quad bike helmet that is fit for purpose 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 no go areas with supervisor according to workplace safety plan 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 environmental and any biosecurity implications associated with quad bike operation and minimise impact 2.3 Identify situations where quad bike active riding techniques are required 2.4 Apply quad bike active riding techniques to pre-position the operators body to assist bike stability 2.5 Identify and avoid riding surfaces, terrains and slopes that are dangerous to safe operation 2.6 Operate and manoeuvre over a variety of surfaces, slopes and terrain safely 2.7 Modify quad bike operation according to local weather conditions
3. Complete quad bike operation	3.1 Shut down quad bike 3.2 Park up and secure quad bike in line with workplace practices 3.3 Identify and report malfunctions, faults, irregular performance or damage to supervisor 3.4 Remove and store keys in the required location 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.

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.

Personal protective equipment must include:	- a suitable quad bike helmet - enclosed toe shoes.
Pre-operational checks must include:	- vehicle damage and serviceability - fuel - brake effectiveness - throttle smooth operation and self-closing return - tyres including pressure and condition - vehicle controls.
Quad bike active riding techniques must include:	- pre-positioning, correct timing and appropriate adjustment of operator body weight when going uphill including body weight forward - pre-positioning, correct timing and appropriate adjustment of operator body weight when going downhill including body weight rearward - 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 centrally when cornering at very slow speeds, and transition to 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, rough terrains, crossing obstacles and avoiding hazards.
Unload, load and secure quad bike must include at least one of the following:	• trailer • transportation device • on-site vehicle storage.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM217 Operate quad bikes	AHCMOM212 Operate quad bikes	Significant changes to performance criteria, foundation skills and range of conditions	No equivalent unit

Links

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

Assessment Requirements for AHCMOM217 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 the individual has safely operated a quad bike on at least two different riding surface conditions and on an even, uneven and sloping terrain and has:

- identified hazards and risks associated with quad bike areas of operation
- identified and avoided riding surfaces, terrains and slopes that are dangerous to safe operation of quad bikes
- identified and confirmed quad bike no go areas
- selected, fitted and used quad bike helmet and other personal protective equipment that was fit for purpose
- maintained personal protective equipment in suitable condition for use
- unloaded the quad bike safely and checked it is safe to use
- operated and manoeuvred quad bikes in different riding surface and terrain conditions including uneven and sloping terrain
- started, steered, manoeuvred, positioned and stopped a quad bike in a controlled manner
- applied quad bike active riding techniques to preposition operator body weight to assist bike stability
- parked the quad bike safely and checked for any damage, malfunctions and faults
- loaded and secured the quad bike safely
- minimised environmental impacts associated with quad bike operation
- followed industry and workplace biosecurity procedures.

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:

- 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

- workplace safety plan for operating and maintaining quad bikes
- quad bike operator's manual
- operating principles and operating methods of quad bikes
- circumstances when quad bike active riding techniques should be applied
- quad bike active riding techniques, including both when and when not to apply quad bike active riding techniques
- effects of different riding surfaces and terrain conditions on the operation of quad bikes
- 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
- variations in state/territory regulations and legislation that may apply in regard to quad bike use
- environmental impacts associated with operating quad bikes and consequences of substandard environmental and biosecurity practices
- industry and workplace biosecurity procedures.

Assessment Conditions

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

- specifications:
 - quad bike operation and maintenance manual
 - industry and workplace biosecurity procedures applicable to quad bike operation
- 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.

Links

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