

Title	Demonstrate knowledge of the safe operation of a quad bike		
Level	2	Credits	3

Purpose	<p>This unit standard is for people working, or intending to work, in the primary sector.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: the safe operation of a quad bike; quad bike riding contingency procedures; and the safe operation of a quad bike with trailed equipment and a mounted load.</p>
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Classification	Agriculture > Agricultural Vehicles and Machinery
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Available grade	Achieved
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Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
 - Health and Safety at Work Act 2015;
 - Land Transport Act 1998.

- 2 **Definition**
 A *quad bike* means a vehicle, typically used in a rural workplace for off road use, that is fitted with handlebars and thumb operated throttle controls, and has the following features:
 - four wheels with low pressure tyres;
 - engine capacity not less than 200cc;
 - gross weight of less than 1000kg;
 - fixed rear axle.
 For this standard, a quad bike excludes racing quad bikes or quad bikes modified for other purposes.

- 3 For the purposes of this unit standard, *flat terrain* is defined as class A and B land under the Land Use Capability Classification, which comprises slopes between 0 - 7° (Flat to gently undulating to undulating terrain). For the purposes of this unit standard, *rolling terrain* is defined as class D land under the Land Use Capability Classification, which comprises slopes between 16° and 20° (Rolling to strongly rolling).

4 References

- NZ Transport Agency, Factsheet 19, *All terrain vehicles: registration, licensing and safety*. Available from <https://www.nzta.govt.nz/>.
- *Guidelines for the Safe Use of Quad Bikes* should be consulted and complied with. These guidelines are available from www.worksafe.govt.nz.
- ACC booklet: *Quad Bike Safety: Tips on how to stay safe*, available from www.acc.govt.nz.
- *Land use capability survey handbook: a New Zealand handbook for the classification of land*, 3rd Edition, 2009, AgResearch; Landcare Research New Zealand; Institute of Geological and Nuclear Sciences.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the safe operation of a quad bike.

Performance criteria

1.1 Identify hazards in operating a quad bike and describe the potential risks of harm or illness to people.

Range evidence is required for at least five hazards.

1.2 Describe control measures to eliminate or minimise health and safety risks.

1.3 Describe a method of formally reporting and/or recording accidents or near misses.

1.4 Describe the registration requirements for a quad bike.

1.5 Explain the safety requirements for a quad bike and its rider in terms of their impact on rider safety.

Range includes but is not limited to – personal protective equipment; operational safety (rider ability, rider's physical and mental state, environmental features and conditions, on farm fences and structures, intended use of vehicle); vehicle safety (tyres, brakes, maintenance); fitting of accessories (for example: spray tank, feed out equipment).

1.6 Identify the function and operation of a quad bike's controls and displays.

1.7 Explain the impact of a quad bike's dynamics on its safe operation.

Range stability, steering, manoeuvrability, braking and control.

Outcome 2

Demonstrate knowledge of quad bike riding contingency procedures.

Performance criteria

- 2.1 Identify methods for avoiding and correcting traction loss.
- 2.2 Explain active riding techniques and the reasons for using them.
- Range techniques include – weight transfer, stability, balance, body position, head and eye position.

Outcome 3

Demonstrate knowledge of the safe operation of a quad bike with trailed equipment and a mounted load.

Performance criteria

- 3.1 Explain the impact of trailed equipment and mounted loads on the dynamics of a quad bike when operating on different terrain and with variable load types.
- Range flat terrain, rolling terrain;
static loads, moveable or live loads;
dynamics include – steering, manoeuvrability, stability, braking, gear selection, traction.
- 3.2 Explain methods for safely loading a trailer in terms of weight of the trailer, weight of the load, securing the load, positioning of the load, and manufacturer's recommendations.
- 3.3 Explain methods for safely attaching a mounted load on a quad bike in terms of weight of the load, securing the load and manufacturer's recommendations.

Replacement information	This unit standard, unit standard 24555 and unit standard 24556 replaced unit standard 19057.
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Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 May 2008	31 December 2013
Revision	2	16 April 2010	31 December 2013
Review	3	21 June 2012	31 December 2020
Review	4	28 February 2019	31 December 2024
Revision	5	29 September 2022	N/A

Consent and Moderation Requirements (CMR) reference	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Muka Tangata – People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.