

Title	Check and drive a basic wheel tractor with an attached implement on flat terrain		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to check a basic wheel tractor; attach a PTO driven 3 point linkage mounted implement to a basic wheel tractor; drive a basic wheel tractor with an attached implement over flat terrain; and detach an implement from a basic wheel tractor.
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Classification	Agriculture > Agricultural Vehicles and Machinery
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Prerequisites	Unit 19044, <i>Demonstrate knowledge of the legal requirements and hazards associated with tractor use</i> , or demonstrate equivalent knowledge and skills.
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015;
 - Land Transport (Driver Licensing) Rule 1999;
 - Land Transport (Road User) Rule 2004.
- 2 Definition
Workplace procedures refer to verbal and written instructions to staff on procedures for tractor maintenance, safety and driving.
- 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). More detail is available from <https://www.landcareresearch.co.nz/publications/books/luc>.
- 4 Assessment
 During assessment, manufacturer's recommendations and legislative requirements for the minimum age of a person driving a tractor must be complied with.

Tractors must be over 1000kg and have a 3 point linkage.

For outcome statements 2 and 4, the attached implement must be a PTO driven implement. Candidates do not have to use the attached implement.

For outcome statement 3, candidates must have evidence of a *minimum of 10 hours* driving a tractor with an attached 3 point linkage mounted implement in a workplace situation, over at least a three week period, covering a range of tasks. This implement does not have to be a PTO driven implement.

This evidence could consist of either a driving logbook, a workplace diary, an attestation from the candidate's employer, or similar.

Assessment should consider candidate's behaviour while operating a tractor. Behaviour is defined as a willingness to comply with, and consistent awareness of, safety requirements and workplace procedures. Examples include; wearing appropriate footwear, operating the vehicle in a manner which minimises risk to self and others, avoiding 'no go' areas, not carrying passengers, and following instructions regarding care and maintenance of vehicles.

5 References

- Information on tractor safety is available from tractor manufacturers.
- Accident Compensation Corporation www.acc.co.nz.
- Worksafe New Zealand www.worksafe.govt.nz.
- *Agricultural Vehicles Guide – A guide for their safe and legal use on New Zealand roads* (2017), available at www.nzta.govt.nz.

Outcomes and performance criteria

Outcome 1

Check a basic wheel tractor before use.

Performance criteria

1.1 Perform maintenance checks on the tractor.

Range checks may include but are not limited to – cooling system, engine oil, hydraulic oil, fuel, greasing points, tyres, brakes, battery, loose attachments and components, bird nests, air filter, PTO guard, hydraulic hoses.

1.2 Any damage or faults to the tractor are reported, or fixed if appropriate, in accordance with workplace procedures.

Outcome 2

Attach a PTO driven 3 point linkage mounted implement to a basic wheel tractor.

Performance criteria

- 2.1 Attach implement securely and safely in the correct sequence, is made stable, and is coupled to enable full functioning.

Range correct sequence includes – engaging handbrake, stopping tractor engine before attaching and detaching PTO shaft, ensuring universal joint pin locked, ensuring appropriate guards, covers and chain in place.

Outcome 3

Drive a basic wheel tractor with an attached implement over flat terrain.

Performance criteria

- 3.1 Identify tractor controls in terms of their function and colour code if applicable.

Range controls may include but not limited to – start and stop controls, gears or equivalent, brakes, power take off, hydraulic levers, differential lock, accelerator (throttle), steering, 2WD/4WD, panel display, loader controls, beacon, indicators, lights, seat controls.

- 3.2 Observe legal requirements while driving.

- 3.3 Use controls in accordance with manufacturer's specifications.

- 3.4 Drive tractor in a controlled manner suitable for the conditions, and risk of damage to the tractor, property, and ground surfaces is minimised.

- 3.5 Demonstrate driving in situations with changes of surface.

Range evidence of three changes of surface is required.

- 3.6 Park tractor and implement in a stable and safe position after operation and are refuelled in accordance with workplace procedures.

Outcome 4

Detach an implement from a basic wheel tractor.

Performance criteria

- 4.1 Detach implement safely in the correct sequence, and risk of damage to implement, self, others and property is minimised.

Range correct sequence includes – engaging handbrake, stopping tractor engine before attaching and detaching PTO shaft.

- 4.2 Store implement in accordance with workplace procedures.

Replacement information	<p>This unit standard was replaced by unit standard 31913 and unit standard 31914.</p> <p>This unit standard replaced unit standard 19043 and unit standard 19049.</p>
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 May 2008	31 December 2021
Review	2	21 June 2012	31 December 2021
Review	3	24 October 2019	31 December 2021

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>.