

<b>Title</b>	<b>Construct farm tracks and prepare on-farm building sites</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>17</b>

<b>Purpose</b>	People credited with this unit standard are able to: select and prepare track construction equipment and machinery; carry out field preparation to construct farm tracks and on-farm building sites; construct farm tracks and on-farm building sites; and carry out post-operational procedures.
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<b>Classification</b>	Rural Contracting > Agricultural Contracting
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Driver licence and any driver licence endorsement appropriate to the machine or vehicle being used.
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### Guidance Information

- The following legislation and requirements apply to this unit standard:
  - Health and Safety in Employment Act 1992;
  - Guidelines for the Provision of Safety, Health and Accommodation in Agriculture* (Wellington: Department of Labour, 1996), available from <http://www.osh.govt.nz/order/catalogue>;
  - Operator Safety Manual for Earthmoving Machinery*, 2006 Connexis Infrastructure ITO;
  - Territorial authority and/or regional council requirements;
  - Manufacturer's instructions.

Any legislation or other requirement superseding any of the above will apply, pending review of this unit standard.
- Assessment against this unit standard must be based on evidence from a workplace context.
- Personal protective equipment, appropriate to job requirements, is to be selected and used in accordance with company requirements and manufacturer's instructions.
- Definitions
  - Company requirements* refer to all policies, procedures, and methodologies the candidate's organisation has in place including but not limited to those relating to health, safety, environment, quality, and operations.
  - Manufacturer's instructions* may include specifications, installation, handling, use, and maintenance instructions and safety data sheets.

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## Outcomes and performance criteria

### Outcome 1

Select and prepare track construction equipment and machinery.

#### Performance criteria

- 1.1 Equipment and machinery chosen are appropriate for constructing farm tracks and preparing on-farm building sites.
- Range may include but is not limited to – wheeled loader; bulldozer, excavator, grader, or wheeled tractor; dump truck or tractor with attachments.
- 1.2 Equipment and machinery are checked for condition, damage, wear, and faults; problems are identified; and corrective action is taken in accordance with manufacturer's instructions and company requirements.
- Range includes but is not limited to – nuts and bolts; bearings; transmission systems; hydraulics; couplings; alignments; power take-off; wheels and tyres, or tracks.
- 1.3 Checks are made and any necessary actions are taken or adjustments made to ensure the mobile machinery complies with legal and company requirements for operator health and safety.
- Range may include but is not limited to – fire extinguisher, first aid equipment, seat, safety belt, mirrors, controls, climate control, sound equipment, communications equipment.

### Outcome 2

Carry out field preparation to construct farm tracks and on-farm building sites.

#### Performance criteria

- 2.1 Hazards at the site are identified and controlled in accordance with company requirements.
- Range may include but is not limited to – underground services, in-ground services, overhead objects, surface obstacles, contours.
- 2.2 Logistical readiness is established in accordance with company requirements.
- Range may include but is not limited to – access, fuel and oil supplies and storage, communications.
- 2.3 Building site and track levels are established to optimise efficiency of operations in accordance with client requirements.

- 2.4 Location, width, and depth are calculated and marked out in accordance with client requirements for efficiency of their operations.
- 2.5 Preparation includes confirming that required consents and permits have been granted.
- 2.6 Excavation work pattern is developed that minimises empty running, and takes account of the terrain and identified hazards.
- 2.7 Equipment and machinery adjustments made are appropriate for the work to be carried out.
- 2.8 Materials are selected in accordance with client requirements for intended usage, and are sourced locally.
- Range usage – number, type, and weight of vehicles; materials – foundations; may include but are not limited to – culvert pipes, fencing requirements.

### Outcome 3

Construct farm tracks and on-farm building sites.

#### Performance criteria

- 3.1 Tracks are excavated, prepared, and laid in accordance with client requirements and predetermined work pattern.
- 3.2 Building sites are excavated, levelled, and prepared in accordance with client requirements and predetermined work pattern.
- 3.3 Borrow sites and track verges are reinstated in accordance with client requirements.
- 3.4 Equipment and machinery are monitored during use and required adjustments are made in accordance with manufacturer's instructions.
- Range track alignment, depth, width, and level; implement alignment; site levels.
- 3.5 Ground conditions are checked for suitability for operation.
- Range soil type, soil conditions, terrain.

### Outcome 4

Carry out post-operational procedures.

## Performance criteria

- 4.1 Shut-down procedures are carried out in accordance with manufacturer's instructions.
- 4.2 Equipment is cleaned and, as required, treated in accordance with manufacturer's instructions and/or company requirements.
- 4.3 Lubrication is carried out in accordance with manufacturer's instructions.
- 4.4 Any damage or faults including any missing, bent, broken, or loose parts are identified and are repaired, replaced, or reported in accordance with manufacturer's instructions and/or company requirements.
- 4.5 Equipment and machinery are stored in accordance with company requirements.
- 4.6 Documentation for the operation is completed in accordance with company and client requirements, and is stored in accordance with company requirements.

**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	23 July 1996	31 December 2021
Revision	2	5 January 1999	31 December 2021
Revision	3	18 January 2000	31 December 2021
Review	4	31 October 2002	31 December 2021
Review	5	25 June 2007	31 December 2021
Review	6	26 March 2020	31 December 2021

<b>Consent and Moderation Requirements (CMR) reference</b>	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.