

<b>Title</b>	<b>Demonstrate knowledge of forestry and its role as a land use</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: explain the concept of multiple land use and the factors influencing the integration of land use; explain the economic and social impacts of forestry as a land use; explain how trees can be used in the management of land; describe forest management strategies used to enhance habitats for specified animal species; and explain sustainability and its impact on land use management.
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<b>Classification</b>	Forestry > Forestry Knowledge
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes the Resource Management Act 1991, and any subsequent amendments.
- 2 References  
Colley, M. *Forestry handbook / New Zealand Institute of Forestry Inc.* (4<sup>th</sup> ed). (2005). Christchurch: New Zealand Institute of Forestry Inc.  
McLaren, J.P. *Radiata Pine Growers Manual.* (1993). FRI Bulletin 184. Rotorua, New Zealand: New Zealand Forest Research Institute.

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### Outcomes and performance criteria

#### Outcome 1

Explain the concept of multiple land use and the factors influencing the integration of land use.

#### Performance criteria

- 1.1 The factors affecting land use options are explained in accordance with the reference texts.  
  
Range topography, climate, history, cultural impacts, legislation, ownership, population demands.
- 1.2 The need and possibilities for integration of land use are explained in accordance with the reference texts.

- 1.3 The potential conflicts of different land uses in production forestry are explained in accordance with the reference texts.
- Range recreational, cultural, scientific, aesthetic, water supply.
- 1.4 The term *land productivity* is explained in terms of multiple uses in accordance with the reference texts.
- 1.5 The changes that occur during the life cycle of a forest and the impact these have on multiple land use management are explained in terms of pasture growth and stock numbers.

## Outcome 2

Explain the economic and social impacts of forestry as a land use.

### Performance criteria

- 2.1 The economic and social impact of forestry as a land use is explained in terms of employment and effect on the community.
- Range employment opportunities, support industries, interaction with the community.
- 2.2 The impact of changing volumes of wood harvest on regional economies and communities is explained in terms of regional development and employment.
- 2.3 Forest product processing demands for land, water, energy, ports, and labour are explained in accordance with the reference texts.

## Outcome 3

Explain how trees can be used in the management of land.

### Performance criteria

- 3.1 The use of forestry to manage and/or reduce erosion is explained in accordance with the reference texts.
- 3.2 The use of forestry to manage and/or reduce pest and weed problems is explained in accordance with the reference texts.
- 3.3 The use of forestry to stabilise sand dunes is explained in accordance with the reference texts.
- 3.4 The use of forestry in land restoration is explained in accordance with the reference texts.
- 3.5 The use of forestry in effluent disposal is explained in accordance with the reference texts.

- 3.6 The use of trees and forests for shelter, screening, and aesthetic purposes is explained in accordance with the reference texts.

#### Outcome 4

Describe forest management strategies used to enhance habitats for specified animal species.

Range endangered species – kiwi, kōkako;  
game species – deer, birds, trout.

#### Performance criteria

- 4.1 Management strategies used to enhance habitats for endangered species and game species are described in accordance with the reference texts.

#### Outcome 5

Explain sustainability and its impact on land use management.

#### Performance criteria

- 5.1 The concept of sustainability is explained in accordance with the Resource Management Act 1991.
- 5.2 The impact of sustainability on forestry management practices is explained in accordance with the reference texts.
- 5.3 The contribution forestry makes to long-term sustainability in terms of overall land use is explained in accordance with the reference texts.

<b>Planned review date</b>	31 December 2022
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 January 1995	N/A
Review	2	27 May 1998	N/A
Review	3	27 May 2002	N/A
Review	4	16 October 2009	31 December 2017
Review	5	10 December 2015	N/A
Rollover and Revision	6	28 May 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.