

Assessment Guide

Domain Forestry > Forestry Foundation Skills

Unit 22997 v4 Demonstrate knowledge of principles of commercial forestry Level 2 Credits 5

Entry information

There are no pre-requisite requirements for this unit.

Candidate to complete

Name	Company
NSI No.	Email / phone

Pre-assessment confirmation

I, the **candidate**,

- Understand the assessment process and assessment requirements for this unit.
- Understand the appeals and resubmission processes.
- Believe I have the skills and knowledge to successfully complete the assessment.

Assessor to complete

Name	Company
Email / phone	

Pre-assessment confirmation

- I, the **assessor**, can confirm the candidate has achieved any pre-requisite requirements.

Assessment instructions




You will need to be able to show you can:

- Demonstrate knowledge of commercial forestry.
- Describe the positive factors affecting the quality and value of a stand of plantation trees.
- Demonstrate knowledge of the forestry industries and downstream processing of forestry products.
- Explain job prescriptions for forestry operations.
- Demonstrate knowledge of quality in a forestry operation.

Important information

- Carefully read through the rest of this Assessment so you know exactly what is expected.
- All evidence you provide for this assessment must be your own work.
- Clearly name and label all attached evidence.

What you need to do

	Question Set 1 – Commercial Forestry
	Question Set 2 – Quality and Value of Plantation Trees
	Question Set 3 – Downstream Processing
	Question Set 4 – Job Prescriptions
	Question Set 5 – Quality Control

You can also attach additional evidence which shows you have the required skills and knowledge, e.g. photos, worksite documents, checklists, work samples, videos.



Question Set 1 – Commercial Forestry

These questions are about forestry terms and plantation species used in commercial forestry. Use your own words. Your assessor may ask you more questions to check your understanding.

1. Match each term with the correct definition. Write the number of the term in the box to the right of the definition.

Terms	
1. Deciduous Trees	2. Evergreen trees
3. Plantation Trees	4. Natural forest
5. Exotic tree species	6. Indigenous tree species
7. Silviculture	8. Harvesting
9. Establishment	10. Land preparation
11. Mensuration	12. Carbon planting

Definitions	Term
Preparation of a site to enhance survival and growth rates of planted trees.	
The management of trees to maximise growth and value through pruning and thinning.	
A forest planted to produce wood and fibre.	
Trees that lose all their leaves once a year and then regrow them.	
Trees that keep their leaves all year round.	
Planting trees stores carbon.	
Species that are native to the country where they are growing.	
The land preparation and planting operations of a forest cycle.	
The measurement of trees to plan the timing of forest operations.	

The felling and extraction of mature trees.	
A forest that is not planted by man.	
An introduced species e.g. Radiata pine.	

2. Describe an impact on commercial forest operations for each of the traditional Maori forest uses given below.

Traditional Maori use/practice	Impact on forest operations
Urupā / burial site	
Medicinal plants	
Food source habitats	

Wahi tapu / historic sites	
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3. For at least **three** of the plantation species tick which is either hardwood or softwood.

Plantation species	Hardwood	Softwood
Radiata Pine		
Douglas Fir		
Eucalyptus		
Cypress		

4. For at least **three** of the plantation species, describe **two** main end uses for each species in New Zealand.

Plantation species	Main uses (2 required for each species)
Radiata Pine	
Douglas Fir	

Eucalyptus	
Cypress	

5. For at least **three** of the following species, state the percentage of total plantation area in New Zealand.

Plantation species	Percentage of total plantation area
Radiata Pine	
Douglas Fir	
Eucalyptus	
Cypress	

6. Correctly state the length of growing cycle in years for each of the species listed below.

Species	Length of growing cycle (years)
Radiata Pine	
Douglas Fir	

Eucalyptus	
Cypress	

Assessor – record key points from candidate’s verbal answers as accurately and fully as possible.

These answers were written by:

Candidate

Assessor

Releasing**Two positive impacts****Two negative impacts****Pruning****Two positive impacts****Two negative impacts**

Assessor – record key points from candidate’s verbal answers as accurately and fully as possible.

These answers were written by:

Candidate

Assessor

Question Set 3 – Downstream Processing

These questions are about the industry cycle and downstream processing of forestry products. Use your own words. Your assessor may ask you more questions to check your understanding.

1. In the forestry operation column, put each forestry operation listed below, in order of which they occur to make up the forest industry cycle.

Describe at least **one** activity involved in each operation.

Forestry operations

Mensuration Processing Land preparation Harvesting

Forestry operation	Activity

2. For each log type, tick the market and processing option it is associated with.

Log type	Export	Domestic	Pulp	Veneer	Solid Wood	Post & pole
Pruned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpruned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Assessor – record key points from candidate’s verbal answers as accurately and fully as possible.

These answers were written by:

Candidate

Assessor

Question Set 4 – Job Prescriptions

This question is about the purpose and content of job prescriptions.

Use your own words. Your assessor may ask you more questions to check your understanding.

1. Correctly explain the purpose and content of a job prescription for forestry operations.

Job prescription	Explanation
Purpose	
Content (6 required)	

Assessor – record key points from candidate's verbal answers as accurately and fully as possible.

These answers were written by:

Candidate

Assessor

Question Set 5 – Quality Control

These questions are about quality control within a forestry operation.

Use your own words. Your assessor may ask you more questions to check your understanding.

1. Give **two** consequences for an employee of poor work performance.

2. Give **two** consequences for an employer of poor work performance.

3. Explain quality control within a forestry operation.

4. Describe the possible outcome (consequence) for the forestry operation of a good and bad result from quality control.

Quality control result	Possible outcome
Good quality control result	
Bad quality control result	

Assessor – record key points from candidate’s verbal answers as accurately and fully as possible.

These answers were written by:

Candidate

Assessor

Assessment result

Post-assessment feedback

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Assessor judgement

I, the **assessor**, have reviewed the candidate's evidence for Unit Standard 22997 v4 and judge that it is sufficient and authentic.

I confirm the candidate can competently:

- Demonstrate knowledge of commercial forestry.
- Describe the positive factors affecting the quality and value of a stand of plantation trees.
- Demonstrate knowledge of the forestry industries and downstream processing of forestry products.
- Explain job prescriptions for forestry operations.
- Demonstrate knowledge of quality in a forestry operation.

Assessment result

<input type="checkbox"/> I, the assessor , confirm the candidate has achieved this unit standard.	Stamp
Signature	Date

Candidate response

I, the candidate :	<input type="checkbox"/> Agree with the assessment result.	<input type="checkbox"/> Wish to appeal.
Signature	Date	