Title	Calculate lengths, areas, and costs and percentages of waste for furniture making		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to calculate lengths, areas, and costs and percentages of waste for furniture making.
---------	--

Classification	Furniture > Furniture and Cabinet Making
----------------	--

Available grade	Achieved
-----------------	----------

# **Guidance Information**

Assessment information
All calculations in this unit standard must be recorded on paper. Where performance criteria require the candidate to measure components, the candidate must record the

component measurements.

2 Range

Demonstration of competence for this unit standard must include – addition, subtraction, multiplication, division.

# Outcomes and performance criteria

# **Outcome 1**

Calculate lengths for furniture making.

#### Performance criteria

1.1 Required length of timber for a job is calculated from a cutting list.

Range cutting list must include – at least four different length

components.

1.2 Diameter of a circular component is measured and used to calculate the required length of edging tape to edge the component.

Range workings must include – identification of middle of circle,

calculation of radius, calculation of circumference.

1.3 The total length of edging tape required to edge a rectangular panel is calculated.

#### Outcome 2

Calculate areas for furniture making.

#### Performance criteria

- 2.1 Components to be cut from panels are measured and their surface areas calculated.
  - Range must include at least one of circular component, rectangular component, triangular component, square component.
- 2.2 Total number of panels required for a job is calculated from a supplied cutting list and cutting plan.
- 2.3 The total surface area of a selected cabinet requiring spray coating is calculated.
- 2.4 A selected pack of timber is measured, and its cubic volume calculated.

#### **Outcome 3**

Calculate costs and percentages of waste for furniture making.

## Performance criteria

- 3.1 Cost of the required length of timber in performance criterion 1.1 is calculated.
  - Range must include obtaining cost of timber per metre, percentage allowance for waste.
- 3.2 Percentage of waste for the panels to be cut in performance criterion 2.1 is calculated.
- 3.3 Percentage of waste calculated is converted to dollar value.
  - Range must include obtaining cost of panels.

Diamand various data	24 December 2025
Planned review date	31 December 2025

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 February 1999	31 December 2011
Review	2	26 February 2002	31 December 2011
Review	3	19 June 2009	31 December 2018
Review	4	19 March 2015	N/A
Review	5	28 January 2021	N/A

Consent and Moderation Requirements (CMR) reference	0173
---	------

This CMR can be accessed at <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a>.

# Comments on this unit standard

Please contact Competenz <u>qualifications@competenz.org.nz</u> if you wish to suggest changes to the content of this unit standard.