

<b>Title</b>	<b>Interpret and evaluate a furniture product design and recommend a cost effective manufacturing option</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: interpret and evaluate a furniture product design from a given design brief; and recommend a cost effective manufacturing option for the furniture product.
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<b>Classification</b>	Furniture > Furniture Operations
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard may be assessed against on-job or off-job.
- 2 Competence for this unit standard will be demonstrated by creating a portfolio of raw material options, hardware options, manufacturing technique options, and surface finish options which capture the intent of a given new furniture product design.
- 3 Definition  
*Design brief* refers to documentation used to communicate the design goals of a new furniture product. The design brief may take the form of design drawings and/or written notes on design specifications such as performance, target cost, number of items to be manufactured, and appearance.

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### Outcomes and performance criteria

#### Outcome 1

Interpret and evaluate a furniture product design from a given design brief.

#### Performance criteria

- 1.1 Purpose and performance requirements of the furniture product are determined.
- 1.2 The demographic profile of the target consumers is identified and described.  
  
Range location, age band, gender, income band, race; may include but not limited to – educational attainment, employment status, likely interests, housing.
- 1.3 Customer expectations for durability of finish, durability of hardware, and life expectancy are interpreted.

- 1.4 Customer is liaised with to confirm the interpretation is accurate.
- 1.5 The functionality of the design is evaluated in relation to practicality and ergonomics, and recommendations for improvements are made as required.
- 1.6 Assumptions, design improvements, and performance requirements for the furniture product are summarised.

## Outcome 2

Recommend a cost effective manufacturing option for the furniture product.

### Performance criteria

- 2.1 Potential construction methods are described.
- Range description to include the likely impact of each method on durability and finished appearance, and capacity of the furniture business to manufacture according to these methods; a minimum of two construction methods are described.
- 2.2 Potential structural materials that meet the requirements of the design brief are identified and compared in terms of the likely impact of each on durability and finished appearance.
- Range a minimum of three structural materials.
- 2.3 Size and shape of the furniture product components are compared with material dimensions of each structural material identified in performance criterion 2.2. The structural material that best optimises material usage and reduces waste is determined.
- 2.4 Surface finishing products that meet the requirements of the design brief are identified and compared.
- Range comparison to include price, product coverage rates, and permanence; a minimum of three surface finishing products are compared.
- 2.5 The compatibility of each surface finishing material in performance criterion 2.4 is described in relation to each of the structural materials identified in performance criterion 2.2.
- 2.6 The surface finishing product identified in performance criterion 2.4 that best optimises material usage and reduces waste is determined.
- 2.7 Hardware options that meet the requirements of the design brief are identified and compared in terms of price and quality.
- Range a minimum of three hardware options are compared.

2.8 A manufacturing option is recommended based on the information determined in performance criteria 2.1 to 2.6.

Range includes but is not limited to – meets design brief requirements in terms of look and durability, optimises material usage, minimises cost.

<b>Planned review date</b>	31 December 2024
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	N/A
Review	2	27 August 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>.

#### 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.