

<b>Title</b>	<b>Demonstrate knowledge of timber types, timber seasoning and insect attack in furniture operations</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of: different types of timber used in furniture operations; timber seasoning; and insect attack and explain measures to deal with insect attack.
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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 Performance criterion 1.1 must be in accordance with the following text:  
Jackson, A and Day, D., (2005) *Collins Complete Woodworker's Manual*. London, England: HarperCollins, which is available at <http://www.amazon.com>.
- 3 Performance criteria 1.2 and 1.3 must be in accordance with the timber species information on the New Zealand Wood Website available at <http://www.nzwood.co.nz/forestry/>.
- 4 Performance criteria for outcome 2 must be in accordance with AS/NZS 4787:2001 *Timber – Assessment of drying quality*, available from Bennett's Government Bookshops or online at <http://www.standards.co.nz/>.
- 5 Performance criteria for outcome 3 must be in accordance with *Common Insects and Fungi that affect Logs and Sawn Timber in New Zealand* (2007) published byASUREQuality Ltd, PO Box 4127, Mt Maunganui South, Tauranga 3149.
- 6 Definition  
*Worksite policies and procedures* refer to documented policies and to documented or other directions provided to staff. These may include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions. For the purposes of this unit standard worksite policies and procedures may also refer to the policies and procedures of an off-job training site.
- 7 All activities and performance criteria must be carried out in accordance with worksite policies and procedures.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of different types of timber used in furniture operations.

#### Performance criteria

- 1.1 Characteristics of softwoods and hardwoods are explained.  
Range two of – colour range, grain pattern, growth rings, speed of growth.
- 1.2 Classifications of timbers are defined.  
Range exotic, indigenous.
- 1.3 Species of timber belonging to each timber classification are stated.  
Range two species belonging to exotic classification, two species belonging to indigenous classification.
- 1.4 Species of timber used in the worksite are identified and classified.  
Range two species, any of – radiata pine, douglas-fir, rimu, beech, kauri, tawa, matai, eucalyptus, mahogany, teak, oak.
- 1.5 The identified timbers are described in terms of their properties.  
Range strength and flexibility, durability, texture, grain.
- 1.6 Storage requirements for the identified timbers are explained.

### Outcome 2

Demonstrate knowledge of timber seasoning.

#### Performance criteria

- 2.1 Reasons for seasoning or drying timber are stated.  
Range a minimum of three examples is required.
- 2.2 Terminology relating to timber drying is defined.  
Range Fibre Saturation Point, Equilibrium Moisture Content, Moisture Content, Green Weight, Oven Dry Weight.
- 2.3 The process of air seasoning and kiln drying is explained.
- 2.4 Advantages of kiln drying in relation to air seasoning are explained.  
Range a minimum of three advantages is required.

**Outcome 3**

Demonstrate knowledge of insect attack and explain measures to deal with insect attack.

**Performance criteria**

3.1 Boring insects are described in terms of their appearance and the damage they do to timber.

Range pinhole borer, two-toothed longhorn, common household borer, powder post beetles.

3.2 An example of an insect attack is identified and action for preventing further attack is explained.

3.3 Safety precautions to be taken when using pesticides are described.

Range safety equipment, application methods, contamination of other areas in the workplace.

<b>Replacement information</b>	This unit standard replaced unit standard 16229.
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<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	31 December 2012
Revision	2	21 July 2011	31 December 2018
Review	3	19 March 2015	N/A
Review	4	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.