

Title	Demonstrate knowledge of timber and other construction materials used in BCATS projects		
Level	2	Credits	5

Purpose	<p>This unit standard has been designed to be achieved in a building, construction and allied trades skills (BCATS) programme.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of types and structure of timber; common defects in timber; conversion, treatment, handling and storage of timber; and other construction materials used in BCATS projects.</p>
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Classification	Construction Trades > Building, Construction, and Allied Trades Skills
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Available grade	Achieved
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Guidance Information

- 1 **Definitions**
BCATS environment refers to any workplace or context where work or activities related to the building, construction and allied trades sector take place, such as school workshops, training establishments, outdoor areas and industry placement workplaces.
BCATS project refers to a project undertaken in a BCATS environment under general supervision, using a range of tools, equipment and materials, and involving standard processes.
- 2 Assessment against this unit standard may occur in any BCATS environment.
- 3 Information supporting assessment decisions should, wherever possible, be collected naturally as the BCATS project progresses.
- 4 The 'other construction materials' will depend on the selected project(s) but are expected to be significant contributors to its completion.
- 5 Legislation relevant to this unit standard includes:
 Health and Safety at Work Act 2015;
 Health and Safety at Work Regulations 2016.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of types and structure of timber.

Performance criteria

- 1.1 Types of timbers are described.
- 1.2 The parts and structure of a tree are identified.
- 1.3 The strength and working qualities of sawn timber boards are described.

Outcome 2

Demonstrate knowledge of common defects in timber.

Performance criteria

- 2.1 Common structural defects in timber are explained.
- 2.2 Common forms of insect and fungal attack are identified and described in terms of the resulting deterioration of timber.
- 2.3 Common environmental causes of timber deterioration are identified and described in terms of the resulting deterioration of the timber.

Outcome 3

Demonstrate knowledge of the conversion, treatment, handling and storage of timber.

Performance criteria

- 3.1 The process of conversion is described.
- 3.2 Methods of seasoning of timber are described.
- 3.3 Types of preservation treatment for building timbers are described and the applications of each are explained.
- 3.4 Safe working and handling procedures when working with timber are explained.
- 3.5 Basic storage and care of timber is explained.

Outcome 4

Demonstrate knowledge of other construction materials used in BCATS projects.

Range at least three other construction materials.

Performance criteria

- 4.1 The structural properties and basic uses of the materials are explained.
- 4.2 Safe working and handling procedures for the materials are explained.
- 4.3 Basic storage and care of the materials are explained.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 2007	31 December 2018
Rollover and Revision	2	20 October 2016	31 December 2020
Review	3	1 November 2018	N/A

Consent and Moderation Requirements (CMR) reference	0048
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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 the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.