

<b>Title</b>	<b>Demonstrate knowledge of construction and manufacturing materials used in BCATS projects</b>		
<b>Level</b>	<b>1</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	<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: establish job requirements and select construction and manufacturing materials for a BCATS project, and describe the properties of selected materials and evaluate their suitability to meet project requirements.</p>
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<b>Classification</b>	Construction Trades > Building, Construction, and Allied Trades Skills
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<b>Available grade</b>	Achieved
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### Guidance Information

- 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 highly structured BCATS environment, using a range of tools, equipment and materials, and involving basic skills.

*BCATS project documentation* refers to information and instructions (oral, written, graphic) that detail the parameters of and planning for a BCATS project. The BCATS project documentation may include such things as project briefs, project plans, working drawings, specifications, and quality control procedures, but this will vary depending on the particular BCATS environment and BCATS project.
- Assessment against this unit standard may occur in any BCATS environment.
- Information supporting assessment decisions should, wherever possible, be collected naturally as the BCATS projects progress.
- Evidence is required for four materials and their applications. Materials must include timber, and may include but are not limited to – manufactured board, metal, plastic, glass, concrete, mechanical fasteners, adhesives, finishing materials, upholstery (fabric or leather).

- 5 Legislation relevant to this unit standard includes:  
Health and Safety at Work Act 2015;  
Health and Safety at Work Regulations 2016.

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## Outcomes and performance criteria

### Outcome 1

Establish job requirements and select construction and manufacturing materials for a BCATS project.

#### Performance criteria

- 1.1 Job requirements for the project are identified from BCATS project documentation.
- 1.2 Materials are selected in accordance with the project requirements.

### Outcome 2

Describe the properties of selected materials and evaluate their suitability to meet project requirements.

#### Performance criteria

- 2.1 The properties of selected materials are described.
- 2.2 The purpose of selected materials is described in accordance with project requirements.
- 2.3 Factors influencing the selection of materials are described.
- Range three of – design, aesthetics, ergonomics, cost, availability, jointing methods, durability, health and safety requirements.
- 2.4 The properties and qualities are compared and evaluated between the selected, and alternative, materials.
- 2.5 Reasons for choosing the selected materials are described.

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<b>Replacement information</b>	This unit standard was replaced by skill standard 40541.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**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	31 December 2027
Review	4	29 May 2025	31 December 2027

**Consent and Moderation Requirements (CMR) reference**

0048

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