

Demonstrate knowledge of construction and manufacturing materials used in BCATS projects

Level 1

Credits 4

Purpose This unit standard has been designed to be achieved in a building, construction and allied trades skills (BCATS) programme.

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.

Subfield	Construction Trades
Domain	Building, Construction, and Allied Trades Skills
Status	Registered
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Entry information	Open.
Accreditation	Evaluation of documentation by NZQA.
Standard setting body (SSB)	Building and Construction Industry Training Organisation
Accreditation and Moderation Action Plan (AMAP) reference	0048

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

Special notes

- 1 Definition
Specifications refer to documented instructions (oral, written, graphic) and may include the following: specifications from a supervisor or project specific drawings or requirements.
- 2 Evidence for achieving credit in this unit standard can be presented in conjunction with meeting the outcomes of other unit standards in the *Building, Construction and Allied Trades Skills* domain or related domains at Level 1.

- 3 Assessment against this unit standard may occur in a wide range of environments, including workplaces, school workshops, work experience workplaces, or other training establishments.
- 4 Evidence must be provided for four materials and their applications. Materials must include timber, and may include 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 in Employment Act 1992;
Health and Safety in Employment Regulations 1995.

Elements and performance criteria

Element 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 job specifications.
- 1.2 Materials are selected in accordance with the project requirements.

Element 2

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

Range four materials, one of which must be a timber.

Performance criteria

- 2.1 The properties of selected materials are described.
Range appearance, working qualities, strength, structural stability.
- 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.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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.