

<b>Title</b>	<b>Measure and calculate for a Stage 3 BCATS project</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard has been designed to be achieved within a building, construction and allied trades skills (BCATS) programme.</p> <p>A person credited with this unit standard is able to measure and calculate for a Stage 3 BCATS project.</p>
----------------	---

<b>Classification</b>	Construction Trades > Building, Construction, and Allied Trades Skills
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

### Explanatory notes

- 1 Definitions
 

*BCATS environment* means 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.

*Calculations* refer to those suited to BCATS projects, such as addition, subtraction, multiplication, division, converting fractions to decimals and percentages (and vice versa), square, square root, using formulae to calculate area and volume, and trigonometry.

*Industry placement* refers to a student being placed with an organisation to gain experience of what it is like to work within a sector of the building and construction industry.

*Stage 3 BCATS project* means a project undertaken in a BCATS environment under limited supervision, using a broad range of tools, equipment, machinery and materials, and involving a range of standard processes.

*Workplace practice* refers to the documented procedures specific to a BCATS environment, which cover the standard and required practices of that environment.
- 2 Assessment against this unit standard may occur in a wide range of BCATS environments as listed above.
- 3 Calculators and computers may be used in achievement of credit for this unit standard.

## Outcomes and evidence requirements

### Outcome 1

Measure and calculate for a Stage 3 BCATS project.

### Evidence requirements

- 1.1 Required measurements and calculations are determined.
- 1.2 Mathematical methods that are chosen are appropriate for the required measurements and calculations.
- 1.3 Chosen methods are applied in the context of the situations provided.
- 1.4 Measurements and calculations are undertaken and are accurate and consistent with the requirements of the Stage 3 BCATS project.
- 1.5 Information and results are accurately presented in accordance with workplace practice.

<b>Planned review date</b>	31 December 2021
----------------------------	------------------

### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 October 2016	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
--	------

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

### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can report credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR 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](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.