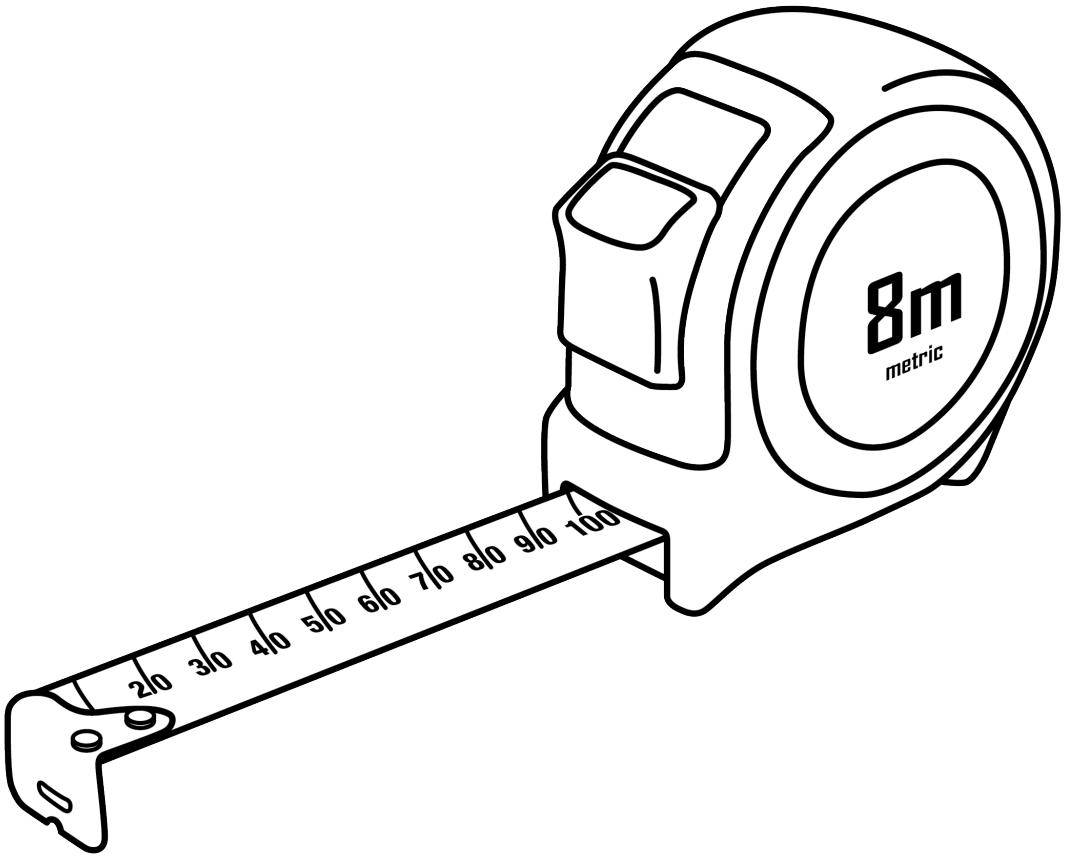
BCATS
BUILDING, CONSTRUCTION AND ALLIED TRADES SKILLS

Measure and calculate

Assessment resource

Level
2



3 credits

Skill Standard 40555 (v1)

Measure and calculate to solve problems for a BCATS project

Learner name: _____

BCATS project: _____

BCITO
He Hunga Hanga Mātou
building people

Assessment: Measure and calculate

Learner instructions

This assessment is about using your measurement and calculation skills for a BCATS project without being prompted.

You need to show you can:

- use the project brief to identify measurements and calculations needed for your project
- choose the best methods to carry out the measurements and calculations
- use accurate measurements and calculations to create a cutting and materials list
- adjust your measurements and calculations as needed
- show your workings and findings clearly.

Note: you can use a calculator/apps/computer to help with your measurements and calculations.



Your teacher will observe you carrying out measurements and calculations for your project. They will provide comments in this assessment resource as evidence to support their observations.

You will need to provide the following evidence to support this. Submit it using myBCITO or the process at your school/organisation.



Your workings for measurements and calculations (including geometry) you carried out for your project, including any adjustments you needed to make.

A completed cutting and materials list.
Note: *you only need to submit one cutting and materials list for your project. This can be used as evidence for more than one skill standard.*

It is a good idea to use the assessment checklist in this assessment resource to keep track of the evidence you have collected.

The grade you are awarded will be based on your ability to use measurements and calculations accurately for your project.

Assessment checklist: Measure and calculate

To be completed by the learner and the teacher.

Assessment activity	Evidence needed	Date all evidence collected (Learner to complete)	Teacher sign-off
Measure and calculate	Your workings for measurements and calculations (including geometry) you carried out for your project, including any adjustments.		
	A completed cutting and materials list.		
Note: A copy of the project brief must also be included in your overall portfolio of evidence.			

Teacher observation: Measure and calculate

Learner name: Project:

Teacher instructions

Below are criteria for the available grades.

Not Achieved	Achieved	Merit	Excellence
Measurements and calculations are not used appropriately to solve problems.	Measure and calculate to solve problems for a BCATS project.	Measure and calculate effectively to solve problems for a BCATS project.	Measure and calculate skilfully to solve problems for a BCATS project.



Provide comments on the learner's ability to meet the following assessment criteria, considering everything you observed throughout the project.

Note: in the context of this skill standard, 'problems' relate to mathematical calculations or equations rather than project-related issues.

Mathematical methods are chosen for the project.	
Mathematical methods are used, including any adjustments as needed to find project-related solutions.	
All findings and workings are presented appropriately.	

Grade awarded: Measure and calculate

Teacher instructions

After considering all the evidence collected, enter the grade you will award for Skill Standard 40555, with comments that explain your decision.

Final grade		**Date**	
Justification for final grade (Provide overall comments, considering all evidence collected)			

Teacher and learner sign-off

		Date
Learner signature (Grade received and accepted)		
Teacher sign-off	Name: _____ Signature: _____	