

# Unit of Competency CPCCOM1015 Carry out measurements and calculations

## Application

This unit of competency specifies the skills and knowledge required to plan and undertake basic measurements and calculations to determine task and material requirements in a construction work environment.

A person working at this level would be expected to complete tasks assigned to them, under supervision.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Prerequisite Unit

No prerequisite unit

## Elements and Performance Criteria

1. Obtain measurements.	1.1	Select most efficient and effective equipment and method for obtaining the measurement.
	1.2	Use a rule or tape to obtain linear measurements accurate to one millimetre.
2. Perform basic calculations.	2.1	Take basic measurements and use basic formulas to calculate weight, area, volume, perimeter, circumference, ratio and percentage in a construction environment.
	2.2	Apply basic formulas to calculate quantities of materials.
	2.3	Convert measurements in metres to millimetres and measurements in millimetres to metres.
	2.4	Check calculations for accuracy and record calculation workings and results.

## Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Unit Mapping Information

Supersedes and is equivalent to CPCCOM1015 Carry out measurements and calculations.

## Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

# Assessment Requirements for CPCCOM1015 Carry out measurements and calculations

## Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by taking measurements and performing calculations for three tasks on a construction work site.

The above measurements and calculations must include those required to determine:

- weight
- area
- volume
- perimeter
- circumference
- ratio
- percentage.

## Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- types of equipment required for planning and performing basic measurements and calculations and their characteristics, uses and limitations:
  - rulers
  - tape measures
  - digital devices including electronic calculators
- methods of calculating the area and volume of the following:
  - rectangles
  - squares
  - circles
  - triangles
  - trapeziums
  - cubes
  - cylinders.

## Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions and standards, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

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