



Australian Government

CPCCCM1015 Carry out measurements and calculations

Release: 1

CPCCCM1015 Carry out measurements and calculations

Modification History

Release 1.

Supersedes and equivalent to CPCCCM1015A Carry out measurements and calculations.

The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Application

This unit specifies the skills and knowledge required to carry out measurements and perform simple calculations to determine task and material requirements for a construction industry task.

It includes carrying out measurements to calculate material quantities.

It applies to workers in the construction industry. It involves working under supervision in a team environment.

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

Pre-requisite Unit

Nil

Unit Sector

Construction

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1. Obtain measurements.	1.1 Select and apply method of obtaining measurements required to meet construction task requirements. 1.2 Select measuring and calculating equipment, check for serviceability and rectify or report any faults. 1.3 Obtain and record linear measurements using a rule, tape or other measuring equipment accurate to 1 mm.
2. Perform	2.1 Determine appropriate calculation factors, and select correct

calculations.	formula and method for achieving required result. 2.2 Calculate, confirm and record material quantities using appropriate factors. 2.3 Calculate, confirm and record areas and volumes using appropriate factors.
---------------	---

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 CPCCCM1015A Carry out measurements and calculations.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCCM1015 Carry out measurements and calculations

Modification History

Release 1.

Supersedes and equivalent to CPCCCM1015A Carry out measurements and calculations.

The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Performance Evidence

To demonstrate competency in this unit, a person must carry out measurements and calculations for three different construction projects, including those required for:

- calculating:
 - perimeter
 - circumference
 - area
 - volume
 - ratio
 - percentage
- converting metres to millimetres and millimetres to metres.

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

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

- construction industry requirements for carrying out measurements and calculations
- uses and applications of measuring and calculating equipment in the construction industry, including:
 - laser equipment
 - rulers
 - tape measures
 - trundle wheels
 - electronic calculators
 - computer-based and online calculators
- formulae and methods for calculating:
 - perimeter
 - circumference

- area
- volume
- ratio
- percentage
- formulae and methods for conversion of metres to millimetres and millimetres to metres.

Assessment Conditions

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

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- specifications for calculations for construction industry projects
- measuring and calculating equipment currently used in industry.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>