



Australian Government

Assessment Requirements for CPCCB3004 Construct masonry steps and stairs

Release: 2

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Modification History

Release 2 Updated reference to general construction induction training program.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCL3004A Construct masonry steps and stairs. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by constructing two flights of stairs both with a parallel wing wall to one side.

In doing this, the candidate must construct:

- one flight with a minimum of three pre-cast concrete treads
- one flight with a minimum of three solid masonry treads
- all treads with a 3 mm slope for water run-off
- wing wall to match the slope of the stairs with symmetrically cut mitres and uniform joints
- both flights to comply with current and relevant Australian Standards, specifications and within the codes for brickwork tolerances.

Knowledge Evidence

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

- construction terminology relating to the construction of masonry steps and stairs:
 - total rise
 - total going
 - landing
 - nosing
 - wing wall
- current Australian Standards and codes for staircase construction:
 - min/max permitted riser size
 - min/max permitted tread size
 - slope calculation 2R + 1G rule
 - min height of a wing wall
 - max number of steps in one flight

- step size tolerance ± 5 mm
- max permitted deviation from level (10 mm in 10 m, or max of 15 mm)
- max permitted bow of a masonry wall (± 5 mm)
- max lipping of materials (Max 2 mm)
- max/min permitted perpendicular joint size (Min size 5 mm, ± 10 mm from specified size)
- max/min permitted bed joint size (10 mm ± 3 mm)
- vertical alignment of perpendicular joints (15 mm per 2 m height of wall, measured centre to centre)
- key features of National Construction Code (NCC) relevant to constructing masonry stairs and steps
- characteristics, applications and limitations of approved materials for step and stair construction
- brick bond patterns
- functional and operational features of plant, equipment and hand and power tools
- workplace safety:
 - job safety and environmental analysis (JSEA)
 - hazardous manual handling
 - exposure to silica
 - exposure to loud noise
- features of working drawings and specification
- processes and techniques for:
 - masonry steps and stairs construction
 - applying geometry to stair calculations and set out
- environmental requirements for workplace processes and waste disposal.

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 reflecting workplace conditions and standards, materials, equipment, activities, responsibilities, procedures, safety requirements and environmental considerations.

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>