



Australian Government

Assessment Requirements for CPCCL3010 Construct masonry arches

Release: 4

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Modification History

- Release 4 Updated reference to general construction induction training program.
- Release 3 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.3.
Changes to Performance Evidence.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Performance Evidence formatted for clarity.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCBL3010A Construct masonry arches.
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 a segmental arch using brick or block
- constructing three other brick or block arches from the following:
 - semicircular arch
 - multicentre arch
 - gothic arch
 - bull's eye arch.

In doing this, the candidate must:

- calculate and develop a full-scale template for a gothic arch
- carry out calculations to determine voussoir size and shape for a gauged arch
- build abutments to the specified height maintaining gauge and bond
- fit the arch centre allowing for ease of stripping on completion
- comply to the brickwork tolerances stated in the current Australian Standards and codes.

Knowledge Evidence

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

- characteristics, applications and limitations of materials used for masonry arch construction
- processes and techniques for:
 - setting out and constructing various types of arches
 - preparing voussoirs for an arch
 - setting out, cutting, assembling and fitting arch templates
- categories and terminologies relating to arches
- structural and load bearing forces applied to arches
- features of working drawings and specifications
- mortar ingredients and consistency
- functional and operational features of plant, equipment, hand and power tools:
 - battery operated tools
- workplace safety:
 - job safety and environmental analysis (JSEA)
 - working safely at heights
 - erecting and dismantling work platforms
 - exposure to silica
 - exposure to loud noise
- key requirements of the National Construction Code (NCC) relevant to masonry arch construction
- 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>