



Australian Government

Assessment Requirements for CPCCT3017 Construct stone arches

Release: 1

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Modification History

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

Supersedes and is equivalent to CPCST3017A Construct stone 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 building two different types of stone arches using regular stone for one and irregular stone for the other.

In doing this, the candidate must:

- set out and assemble arch support
- cut regular keystone and voussoirs with even joints
- remove arch support without damage to stonework.

Knowledge Evidence

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

- characteristics, application and limitations of specified materials used for building stone arches
- methods and techniques for constructing stonemasonry arches
- arch design:
 - regular gauge
 - random regular
 - random rubble
- types of natural and manufactured stone
- processes and techniques for building various types of stone arches
- construction terminology relating to stone arches
- mortar ingredients and consistency
- types and safe use of lifting equipment
- functional and operational features of plant, equipment and tools:
 - wet cut saws
 - angle grinders
 - cement mixers

- power saws
- battery operated tools
- workplace processes and procedures
- workplace safety:
 - exposure to silica
 - exposure to excessive noise
 - working at heights
 - hazardous manual tasks
 - job safety and environmental analysis (JSEA)
- features of working drawings and specifications
- environmental requirements for workplace processes and waste disposal
- Australian Standards and codes
- key requirements of National Construction Code (NCC) relating to stone arch construction
- digital technology and use of devices to source information and communicate with others.

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>