



Australian Government

**Assessment Requirements for
CPCST3024 Apply conservation
principles and practices to heritage
stonework**

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.

New unit.

Performance Evidence

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by applying conservation methods to heritage stonework.

In doing this, the candidate must:

- clean a minimum of min 500 mm x 500 mm stone area
- apply a minimum of two surface treatments to the stone area
- carry out mortar repair to a minimum area of 100 mm x 200 mm on ashlar stone
- carry out mortar repair to a minimum area of 100 mm x 200 mm on to a moulded profile
- repoint a minimum of 1.5 m straight joints and a minimum 300 mm of moulded joints.

Knowledge Evidence

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

- heritage significance as stated in:
 - The Burra Charter
 - Heritage Act
 - Heritage Building Classifications
- fundamentals and importance of conservation:
 - role of independent testing authorities relating to materials and treatments
 - importance and purpose of working under the supervision of heritage experts
 - difference between traditional stone restoration and the preservation of existing materials
 - the effects of conservation materials and procedures on surrounding materials
 - assessment and remedial work applied on a case to case basis
- characteristics, application and limitations of stone conservation materials and components:
 - mortar constituents, binders, aggregates, pigments, additives
 - mortar consistency

- surface cleaners and treatments
- materials used in crack repair
- stone consolidants
- processes and techniques for heritage work
- principles of stone conservation:
 - maintenance
 - restoration
 - reconstruction
 - repair
 - adaption
 - preservation
 - cleaning
- physics of materials in conservation work
- functional and operational features of plant, equipment and hand and power tools;
 - micro-abrasive cleaning
 - laser cleaning
 - steam cleaning
 - battery operated tools
- workplace processes and procedures
- workplace safety:
 - exposure to silica
 - job safety and environmental analysis (JSEA)
 - hazardous manual tasks
 - working at heights
 - dust and dust suppression
 - exposure to excessive noise
- features of working drawings and specifications
- environmental requirements for workplace processes and waste disposal
- sustainability principles
- digital technology to source information and communicate with others
- key requirements of the National Construction Code (NCC) relevant to heritage stonework
- Australian standards and codes.

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>