



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **CPC CST3012A Build stone veneer walls**

**Release: 1**

## CPCST3012A Build stone veneer walls

### Modification History

Not Applicable

### Unit Descriptor

**Unit descriptor** This unit specifies the outcomes required to build single leaf, stone block facing to metal and timber wall framing.

### Application of the Unit

**Application of the unit** This unit of competency supports the achievement of skills and knowledge to build stone veneer walls, which may include working with others and as a member of a team.

### Licensing/Regulatory Information

Not Applicable

### Pre-Requisites

#### Prerequisite units

CPCCOHS2001A	Apply OHS requirements, policies and procedures in the construction industry
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## Employability Skills Information

**Employability skills**      This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

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Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare.	<p>1.1. Work instructions and operational details are obtained using relevant <i>information</i>, confirmed and applied for <i>planning and preparation</i> purposes.</p> <p>1.2. <i>Safety (OHS)</i> requirements are followed in accordance with hazards, safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented. in consideration of <i>hazards</i>.</p> <p>1.4. <i>Tools and equipment</i> selected to carry out tasks are consistent with job requirements, checked for serviceability and any faults are rectified or reported prior to commencement.</p> <p>1.5. Material quantity requirements are calculated in accordance with plans, specifications and <i>quality requirements</i>.</p> <p>1.6. <i>Materials</i> appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.7. <i>Environmental requirements</i> are identified for the project in accordance with environmental plans and <i>statutory and regulatory authority</i> requirements, and are applied.</p>
2. Select and prepare materials and equipment.	<p>2.1. Appropriate <i>shifting equipment</i> is installed and tested to OHS regulations and job requirements, where applicable.</p> <p>2.2. Working platforms and scaffolding are erected in accordance with OHS regulations and job requirements.</p>
3. Set out veneer stonemasonry work.	<p>3.1. Location and structural details of stonemasonry work are identified from drawings and job specifications and datum or level line is established.</p> <p>3.2. Stonemasonry work is set out to location and dimensions from drawings and specifications.</p>
4. Construct base stonemasonry work.	<p>4.1. Mortar is mixed to specifications and in accordance with AS1316 Masonry cement.</p> <p>4.2. Stonemasonry work gauge is determined and set-out rod prepared.</p> <p>4.3. Base stonemasonry work is constructed for veneer construction to requirements of AS3700 Masonry in buildings.</p>
5. Construct veneer	<p>5.1. Timber/steel <i>structural</i> frame is checked to ensure it is ready for stonemasonry work veneer, without</p>

**ELEMENT****PERFORMANCE CRITERIA**

walls.	<p>protrusion into required cavities.</p> <p>5.2. Stonemasonry work is laid and completed to job drawings and specifications with damp proof course laid in accordance with specifications and AS2904 Damp proof courses and flashings.</p> <p>5.3. Reflective foil laminate is installed to comply with AS1940 The storage and handling of flammable combustible liquids and AS3700.</p> <p>5.4. Ventilation for veneer construction is built in to specifications to requirements of as per AS1684 Residential timber framed construction, and Building Code of Australia (BCA).</p> <p>5.5. Wall ties are positioned and fixed to timber/steel framework correctly to AS2699 Wall ties on masonry construction.</p> <p>5.6. Openings are constructed and flashings installed to job specification and cavities are kept clear of mortar droppings and bridging.</p> <p>5.7. Lintels are installed to job specifications and top stonemasonry work is constructed to eaves level to AS3700 requirements.</p> <p>5.8. Scaffolding is erected as required in accordance with job requirements and OHS regulations.</p> <p>5.9. Walls are built to gauge straight and true in plumb, line and level within the tolerances set out in AS3700.</p> <p>5.10. Control joints are formed in accordance with locations on job drawings and specifications and AS3700 requirements.</p> <p>5.11. Weepholes, brick/block reinforcing, vermin proofing and wall flashing are located and built in, where required, to job specifications.</p> <p>5.12. Sills are cut where required and laid to line in accordance with job specifications.</p>
6. Rake and rule joints.	<p>6.1. Joints to laid stonemasonry work are raked or ruled to correct depth and profile in accordance with job specifications.</p> <p>6.2. Stonemasonry work is brushed down prior to drying to remove unwanted mortar.</p>
7. Clean up.	<p>7.1. Stonemasonry work is cleaned using dry, liquid or chemical means in accordance with type of stone and specifications.</p> <p>7.2. Area is cleared of waste, material, scaffolding and</p>

**ELEMENT****PERFORMANCE CRITERIA**

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equipment and waste and unwanted material are disposed of safely.

7.3. Unused materials are stored/stacked and tools and equipment cleaned, maintained and stored.

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

#### Required skills

Required skills for this unit are:

- ability to recognise procedures, respond to change and contribute to workplace responsibilities, such as current work site environmental or sustainability frameworks or management systems
- communication skills to:
  - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
  - follow instructions
  - read and interpret drawings and specifications
  - use and interpret non-verbal communication
  - use language and concepts appropriate to cultural differences
- innovation skills to select appropriate tools and equipment, respond to workplace challenges and put ideas into action
- numeracy skills to apply calculations
- planning and organisational skills to identify requirements, apply relevant resources and sequence tasks
- problem solving skills to recognise and take action to rectify minor faults and problems
- teamwork skills to be able to work with others to action tasks and relate to people from a range of cultural, social, ethnic backgrounds and with varying physical and mental abilities.

#### Required knowledge

Required knowledge for this unit is:

- Australian standards
- BCA
- interpretation of drawings and specifications

**REQUIRED SKILLS AND KNOWLEDGE**

- job safety analysis (JSA) and safe work method statements
- measuring, levelling and calculation processes relevant to stonemasonry work
- methods of fixing stone veneer
- range of commonly used mortar additives
- safe use of scaffolding
- types and safe use of lifting equipment
- types of mortar mix and composition
- types of stone and their characteristics
- workplace and equipment safety requirements.

# Evidence Guide

## EVIDENCE GUIDE

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The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

### Overview of assessment

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

### Critical aspects for assessment and evidence required to demonstrate competency in this unit

A person who demonstrates competency in this unit must be able to fix stone veneer to at least one of the structural types listed in the range statement, providing evidence of the ability to:

- comply with OHS regulations applicable to workplace operations
- select and use of appropriate processes, tools and equipment for carrying out tasks
- apply organisational quality procedures and processes within the context of stone veneer construction
- select stone consistent with specification for material and colour
- use safe handling practices in moving and placing stone
- fix stone to position and structure
- use safe and effective procedures to lay a stone wall to alignment and plumb
- fix and finish wall ties of stone face to specifications
- comply with organisational policies and procedures
- demonstrate accurate measuring and setting out techniques
- determine wall location and set-out accurately
- lay stone to line level, plumb and gauge
- apply safe and effective procedures in erecting scaffolds
- identify faults and problems that occur and take necessary action to rectify



## EVIDENCE GUIDE

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- communicate interactively with others to ensure safe and effective work operations are carried out
- clean up cavities, wall and work area
- complete base and stone veneer construction to specification.

### **Context of and specific resources for assessment**

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- work location for stone veneer activity
- tools, plant and equipment appropriate to construction processes
- construction materials relevant to proposed activity
- appropriate documentation relevant to task.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

### **Method of assessment**

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm a reasonable inference that competency is not only verified under the particular assessment circumstance, but is able to be transferred to other circumstances and

## EVIDENCE GUIDE

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environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should, as far as is practical, take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

## Range Statement

### RANGE STATEMENT

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The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

***Information*** includes:

- diagrams or sketches
- instructions issued by authorised organisational

## RANGE STATEMENT

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or external personnel

- manufacturer specifications and instructions, where specified
- material safety data sheets (MSDS)
- memos
- regulatory and legislative requirements pertaining to building stone veneer walls
- relevant Australian standards
- safe work procedures relating to building stone veneer walls
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification
- work site inspection.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- hazard control
- hazardous materials and substances
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
  - concealed services (water, power and gas)
  - lighting
  - restricted access barriers
  - traffic control
  - work site visitors and the public
  - working at heights
  - working in confined spaces
  - working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and

***Planning and preparation*** include:

***Safety (OHS)*** is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

## RANGE STATEMENT

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- Hazards*** include:
- safety.
  - barricades
  - dust
  - excessive noise nearby
  - obstructions to clear access for supply
  - other work personnel
  - power leads
  - wind.
- Tools and equipment*** include:
- angle grinders
  - chisels
  - concrete mixers
  - dumpy levels
  - jointing tools
  - line pins
  - masonry saws
  - mason's squares
  - measuring tapes and rules
  - mortar boards
  - pitching tools
  - plumb rules
  - power leads
  - profiles
  - scaffolding
  - shovels
  - spirit levels
  - straight edges
  - string lines
  - trowels
  - wheelbarrows.
- Quality requirements*** include:
- application procedures
  - attention to specifications of work
  - colour and shape of stones
  - control of handling procedures
  - mortar mix/composition
  - relevant regulations, including:
    - Australian standards:
      - AS1316 Masonry cement
      - AS2699 Wall ties on masonry construction
      - AS2904 Damp proof courses and

## RANGE STATEMENT

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	<ul style="list-style-type: none"> <li>flashings</li> <li>• AS1225 Clay building bricks</li> <li>• AS2733 Masonry units</li> <li>• AS3700 Masonry in buildings</li> <li>• internal company quality policy and standards</li> <li>• manufacturer specifications where specified</li> <li>• workplace operations and procedures</li> </ul>
<i>Materials</i> for veneered construction may be:	<ul style="list-style-type: none"> <li>• attention to specifications of work.</li> <li>• coursed</li> <li>• random regular</li> <li>• regular</li> <li>• uncoursed.</li> </ul>
<i>Environmental requirements</i> include:	<ul style="list-style-type: none"> <li>• clean-up management</li> <li>• dust and noise</li> <li>• vibration</li> <li>• waste management.</li> </ul>
<i>Statutory and regulatory authority</i> includes:	<ul style="list-style-type: none"> <li>• federal, state and local authorities administering applicable Acts, regulations and codes of practice.</li> </ul>
<i>Shifting equipment</i> includes:	<ul style="list-style-type: none"> <li>• elevating work platforms</li> <li>• gin poles</li> <li>• mechanised hoists</li> <li>• shear legs.</li> </ul>
<i>Structural</i> considerations may include:	<ul style="list-style-type: none"> <li>• metal wall framing</li> <li>• timber wall framing.</li> </ul>

## Unit Sector(s)

**Unit sector**                      Construction

## Co-requisite units

**Co-requisite units**              Nil

**Co-requisite units**      Nil

## **Functional area**

**Functional area**