



**Australian Government**

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

# **CPCST2001A Prepare for stonemasonry construction process**

**Release: 1**

## CPCST2001A Prepare for stonemasonry construction process

### Modification History

Not Applicable

### Unit Descriptor

**Unit descriptor** This unit specifies the outcomes required to undertake the preparation processes required to support the laying or placement of stone.

### Application of the Unit

**Application of the unit** This unit of competency supports the achievement of skills and knowledge to prepare for stonemasonry operations and installations, 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 <b>information</b>, confirmed and applied for <b>planning and preparation</b> purposes.</p> <p>1.2. <b>Safety (OHS)</b> requirements are followed in accordance with safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented.</p> <p>1.4. <b>Tools and equipment</b> 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 <b>quality requirements</b>.</p> <p>1.6. <b>Materials</b>, including correct type of stone and materials other than stone appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.7. <b>Environmental requirements</b> are identified for the project in accordance with environmental plans and <b>statutory and regulatory authority</b> requirements, and are applied.</p>
2. Prepare work area suitable for construction process.	<p>2.1. Activities to be carried out in work area are identified from type of stonemasonry work and planned procedures according to layout of construction and access to location.</p> <p>2.2. <b>Work area is</b> prepared for <b>construction process</b> according to supervisor's instructions.</p>
3. Use tools, plant and equipment appropriate for construction process.	<p>3.1. Regular hand and power tools suitable for application process are identified from job requirements.</p> <p>3.2. Hand and power tools are used safely and effectively to carry out processes.</p>
4. Assist with stonemasonry work.	<p>4.1. Selected stone is visually checked to ensure it meets specifications, including colour and matching surrounding area, and is distributed to location.</p> <p>4.2. Surface is brushed, scraped and washed cleaned of surplus mortar material on completion of stonemasonry process.</p>
5. Clean up.	<p>5.1. Materials are stacked and/or stored for re-use or removal.</p>

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<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
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|  | 5.2. Work area is cleared.                                   |
|  | 5.3. Tools and equipment are cleaned, maintained and stored. |
|  | 5.4. Waste is disposed of appropriately.                     |

## **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
    - material safety data sheets
    - plans
  - 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 calculate measurement requirements related to lengths and allowances
- 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:

**REQUIRED SKILLS AND KNOWLEDGE**

- interpretation of drawings and specifications
- job safety analysis (JSA) and safe work method statements
- material handling techniques associated with stonemasonry work
- measurement techniques relevant to stone
- types and characteristics of materials used in stonemasonry work
- types and safe use of portable power tools for stonemasonry work
- types and use of hand tools and equipment relevant to stonemasonry work
- 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 prepare for a range of stonemasonry activities, providing evidence of the ability to:

- comply with OHS regulations applicable to workplace operations
- comply with organisational policies and procedures, including quality assurance requirements
- carry out correct procedures prior to and during the construction processes
- demonstrate safe and effective operational use of tools, plant and equipment
- adopt and use correct procedures to handle and place materials
- communicate with others to ensure safe and effective work site operations.

### 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:

- construction materials relevant to stonemasonry work
- hand and power tools appropriate to stonemasonry work processes

## EVIDENCE GUIDE

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- plant and equipment appropriate to stonemasonry work processes
- suitable work area appropriate to construction processes.

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 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.



## EVIDENCE GUIDE

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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.

1.1. *Information* includes:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions, where specified
- material safety data sheets (MSDS)
- memos
- regulatory and legislative requirements pertaining to preparation for stonemasonry production process
- relevant Australian standards
- safe work procedures relating to preparation for stonemasonry production process
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.

1.2. *Planning and preparation* include:

- assessment of conditions and hazards
- determination of work requirements and safety plans and policies

## RANGE STATEMENT

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

- 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)
  - dust
  - lighting
  - restricted access barriers
  - traffic control
  - wind
  - work site visitors and the public
  - working at heights
  - working from platforms
  - working in confined spaces
  - working in proximity to others
  - working with heavy stone
- use of firefighting equipment
- use of shifting equipment
- use of tools and equipment
- working platforms and scaffolding
- workplace environmental requirements and safety.

1.4. **Tools and equipment** include:

- angle grinders
- bolsters
- brushes and brooms
- hammers
- hoses
- masonry saws
- measuring tapes and rules
- mortar boards
- power leads

## RANGE STATEMENT

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- 1.5. **Quality requirements** include:
- scaffolding
  - shovels
  - wheelbarrows.
  - handling of materials
  - preparation of surfaces
  - relevant regulations, including:
    - Australian standards
    - internal company quality policy and standards
    - manufacturer specifications where specified
    - workplace operations and procedures
  - storage of materials
  - use and maintenance of tools and equipment.
- 1.6. **Materials:**
- include:
    - cement
    - lime
    - sand
  - may vary in accordance with stone:
    - colour
    - shape
    - size
    - type
  - preparation may include:
    - cutting stone
    - preparing materials for batching for mortar.
- 1.7. **Environmental requirements** include:
- clean-up management
  - dust and noise
  - stormwater protection
  - waste management.
- 1.8. **Statutory and regulatory authority** includes:
- federal, state and local authorities administering applicable Acts, regulations and codes of practice.
- 1.9. **Work area preparation** includes:
- cleaning of strip footings or slab
  - erecting scaffolding
  - establishing temporary water and power supply
  - locating mortar boards

## RANGE STATEMENT

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1.10. *Construction processes* include:

- preparing access for supply of mortar
- setting up concrete mixer.
- cleaning stone face
- laying stone
- preparing for stone laying
- work site preparation.

## Unit Sector(s)

Unit sector                      Construction

## Co-requisite units

Co-requisite units              Nil

## Functional area

Functional area