



**Australian Government**

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

# **CPC CST2002A Identify and use stone products**

**Release: 1**

## **CPCST2002A Identify and use stone products**

### **Modification History**

Not Applicable

### **Unit Descriptor**

#### **Unit descriptor**

This unit specifies the outcomes required to use stone products manufactured to designed specifications for both off-site and in situ installation.

### **Application of the Unit**

#### **Application of the unit**

This unit of competency supports the achievement of skills and knowledge to identify and use a range of stone products for both off-site and in situ installation, 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

## 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 safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented.</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. Identify types, size, defects and function of stone products.              | <p>2.1. Common types of stone used are identified for job specifications.</p> <p>2.2. Key features and orientation of patterns in stone are identified and applied.</p> <p>2.3. Bed and face of stone and association to fretting of stone are identified and applied.</p>   |
| 3. Recognise terms used in the identification and usage of stone products.    | <p>3.1. Common terms, instructions and information relating to usage of stone are understood and used in the workplace.</p> <p>3.2. Commonly used symbols and abbreviations are identified and applied.</p> <p>3.3. Key architectural types used in stonemasonry are identified and applied.</p>   |
| 4. Explain processes and procedures used in stone production and manufacture. | <p>4.1. Methods used in <i>processing and manufacture of stone products</i> are identified and applied.</p> <p>4.2. Common type of plant and tools used for stone production are identified and applied.</p> <p>4.3. Main difference between off-site and in situ stone production are identified and applied as part of</p>   |

| ELEMENT  | PERFORMANCE CRITERIA  |
|--|---|
| 5. Correctly handle, saw and store stone products. | <p>construction process.</p> <p>5.1.Characteristics of common types of stone are identified and appropriate handling techniques are applied.</p> <p>5.2.Work practices are identified and sequenced according to performance requirements of product.</p> |
| 6. Clean up.                                       | <p>6.1.Work area is cleared to specifications.</p> <p>6.2.Unused materials are stored.</p> <p>6.3.Tools, plant and equipment are cleaned, maintained and stored.</p>  |

## 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
  - 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
- 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 SKILLS AND KNOWLEDGE

Required knowledge for this unit is:

- interpretation of drawings and specifications
- job safety analysis (JSA) and safe work method statements
- measurement techniques related to stonemasonry work
- types and uses of accessories associated with stone construction
- types of stone and stone products
- 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 select and use two stones types suitable for nominated construction purposes, 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 handling processes
- select and use appropriate processes, tools and equipment to cut stone
- adopt and use correct procedures to handle and place materials
- communicate with others to ensure safe and effective work site operations.

## EVIDENCE GUIDE

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**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 stone product application
- hand and power tools appropriate to work processes
- plant and equipment appropriate to work processes
- suitable work area appropriate to application 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

## EVIDENCE GUIDE

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- 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.

- 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

## RANGE STATEMENT

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- regulatory and legislative requirements pertaining to handling stone products
  - relevant Australian standards
  - safe work procedures relating to handling stone products
  - 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
  - equipment defect identification
  - work site inspection.
- 1.3. *Safety (OHS)* is to be in accordance with state and territory legislation and regulations and project safety plan and may include:
- 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
  - working platforms and scaffolding
  - workplace environmental requirements and safety.
- 1.4. *Tools and equipment* include:
- angle grinders
  - bolsters
  - brushes and brooms

## RANGE STATEMENT

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- hammers
  - hoses
  - masonry saws
  - measuring tapes and rules
  - mortar boards
  - power leads
  - scaffolding
  - shovels
  - wheelbarrows.
- 1.5. *Quality requirements* include:
- attention to specifications of work
  - control of handling procedures
  - quality of materials
  - relevant regulations, including:
    - Australian standards
    - internal company quality policy and standards
    - manufacturer specifications where specified
    - workplace operations and procedures
  - use and maintenance of equipment.
- 1.6. *Materials* include:
- basalt
  - granite
  - marble
  - pre-cast concrete
  - sandstone.
- 1.7. *Environmental requirements* include:
- waste management
  - dust and noise
  - vibration
  - clean-up management
- 1.8. *Statutory and regulatory authority* includes:
- federal, state and local authorities administering applicable Acts, regulations and codes of practice.
- 1.9. *Processing and manufacture of stone products* include:
- crushed to aggregate size
  - crushed to fine particle (dust) size
  - cut and polished to tile size
  - cut or finished to pavement section size.

## **Unit Sector(s)**

**Unit sector**                      Construction

## **Co-requisite units**

**Co-requisite units**              Nil

## **Functional area**

**Functional area**