



Australian Government

Department of Education, Employment and Workplace Relations

CPCST3004A Dress stone manually

Release: 1

CPCST3004A Dress stone manually

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit specifies the outcomes required to dress stone manually using methods of working stone and tools dependant upon the type of stone.

The unit applies to both hard and soft stone.

Application of the Unit

Application of the unit

This unit of competency supports the achievement of skills and knowledge to dress stone manually, 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

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. Select stone. | <p>2.1. Stone is selected in accordance with type and colour of stone, where applicable and checked for defects or natural inclusions inappropriate for job.</p> <p>2.2. Stone is checked for dimensions to allow dressing to produce final design.</p> |
| 3. Dress stone. | <p>3.1. Stone is marked out in a manner appropriate to job plan and specifications at each progressive stage of dressing.</p> <p>3.2. Rough blocks are primarily <i>dressed</i> to establish an oversized stone appropriate to job plan and specifications.</p> <p>3.3. Face of stone is dressed to flat surface and sides of stone are dressed off face in accordance with job plan and specifications.</p> <p>3.4. Cylinder is dressed in accordance with job plan and specifications.</p> <p>3.5. Sphere is dressed in accordance with job plan and specifications.</p> |
| 4. Clean up. | <p>4.1. Surfaces are finished to a standard appropriate to job plan and specifications.</p> |

| ELEMENT | PERFORMANCE CRITERIA |
|----------------|--|
| | 4.2. Stone is cleaned using water and brush or other appropriate non-corrosive method. |
| | 4.3. Work area is cleared and cleaned and waste material disposed of safely. |
| | 4.4. Tools and equipment are 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 measurements and 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:

- interpretation of working drawings and specifications

REQUIRED SKILLS AND KNOWLEDGE

- job safety analysis (JSA) and safe work method statements
- material handling techniques related to stonemasonry work
- measuring and marking techniques related to shaping stone
- methods of dressing stone
- regulations related to safe waste disposal and dust suppression
- types of stone and their characteristics
- workplace and equipment safety requirements.

Evidence Guide

EVIDENCE GUIDE

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 dress both hard and soft stone types from those listed in the range statement, providing evidence of the ability to:

- comply with OHS regulations applicable to workplace operations
- apply organisational quality procedures and processes within context of dressing stone
- select and use appropriate processes, tools and equipment to carry out tasks
- demonstrate sound and safe techniques to produce dressed face on stone
- demonstrate accurate setting out of each side and end of stone
- select appropriate sequencing of tasks associated with shaping of stone
- adopt and use safe and effective procedures to dress stone
- regularly check dressing process to ensure work is to set out and size
- dress and finish stone 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:

EVIDENCE GUIDE

- workplace location
- hand tools and equipment appropriate to setting out and dressing processes
- stone appropriate to activity
- drawings, specifications and documentation relative to activity.

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

EVIDENCE GUIDE

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

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 or external personnel
- manufacturer specifications and instructions, where specified
- material safety data sheets (MSDS)
- memos
- regulatory and legislative requirements pertaining to handling stone
- relevant Australian standards
- safe work procedures relating to handling stone
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- assessment of conditions and hazards

Planning and preparation

RANGE STATEMENT

include:

- 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 safety.

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

Tools and equipment will depend on type of stone being used, designed shape to be produced and will include:

- axes
- bevels
- cocks combs
- drags
- drills (power or hand)
- hand saws
- koblers
- mallets and hammers
- measuring tapes and rules
- pitchers
- plugs and feathers
- punches
- range of chisels

RANGE STATEMENT

- scribes
 - spalling hammers
 - spirit levels
 - splitting gads
 - squares
 - straight edges
 - tooth chisels.
- Quality requirements*** include:
- attention to specifications of work
 - control of handling procedures
 - relevant regulations, including:
 - Australian standards
 - internal company quality policy and standards
 - manufacturer specifications where specified
 - workplace operations and procedures
 - use and maintenance of equipment.
- Materials*** include hard and soft stones, such as:
- basalt (blue stone)
 - granite
 - limestone
 - locally available stone
 - porphyry
 - sandstone
 - slate.
- Environmental requirements*** include:
- clean-up management
 - dust and noise
 - vibration
 - waste management.
- Statutory and regulatory authority*** includes:
- federal, state and local authorities administering applicable Acts, regulations and codes of practice.
- Dressed*** methods for stone may include:
- axing
 - chiselling
 - drilling
 - hand sawing
 - pitching
 - punching
 - splitting.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area