UNIT CODE	CPCCST2004
UNIT TITLE	Lay stone
APPLICATION	This unit specifies the skills and knowledge required to use a variety of stones to construct stone structures, such as freestanding and garden walls, load bearing structural walls and veneer facing. The unit is suitable for people with basic skills and knowledge who undertake routine stonemasonry work tasks under the direction of more experienced workers. Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCCWHS1001 Prepare to work safely in the construction industry* meets this requirement. No licensing, legislative or certification requirements apply to this unit at the time of publication.
PREREQUISITE UNIT	CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1. Plan the work.	1.1 Read and interpret lay stone requirements from current plans, specifications, standards and codes and confirm information with relevant person. 1.2 Source and follow relevant information from workplace safety and environmental documentation and workplace procedures. 1.3 Calculate material quantities for the task using measurements and formulas. 1.4 Clarify job priorities and sequence job tasks in consultation with others on site. 1.5 Identify potential hazards and implement control measures. 1.6 Select and check condition of plant, equipment and tools and report damage or malfunction to relevant personnel. 1.7 Check conformity of materials against the specifications.

2. Prepare for work.	2.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job. 2.2 Identify structural, construction and finish details of wall. 2.3 Set out and mark position, length and height of wall. 2.4 Sort and blend stone and place in preparation to commence work. 2.5 Mix mortar to colour and consistency and place on mortar board ready for use.
3. Lay stone.	3.1 Lay base stone and fix ties and reinforcing and install drainage, flashing and ties. 3.2 Lay stone to a sequence and maintain face to a set line. 3.3 Lay stone to height maintaining shape, consistent joint size, level and plumb. 3.4 Lay wall capping and clean face of stone wall.
4. Fix stone slabs.	4.1 Prepare existing wall for stone application. 4.2 Mix and apply adhesives, mortar or plaster to job requirements. 4.3 Secure stone with ties or dowels. 4.4 Fix stone level, plumb with even joints. 4.5 Remove excessive mortar or adhesive. 4.6 Clean face of stonework.
5. Clean up.	5.1 Clear the work area, and dispose of, reuse or recycle materials following workplace and environmental requirements. 5.2 Clean tools and equipment, check for serviceability and report damage or faults. 5.3 Store and secure tools and equipment following workplace procedures.
FOUNDATION SKILLS Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.	
UNIT MAPPING INFORMATION	Supersedes and is equivalent to CPCCST2004A Lay stone
LINKS	Companion volumes to this training package are available at the VETNet website:

	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

TITLE	Assessment requirements for CPCCST2004 Lay stone

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by constructing one 1.5 m long x 1.0 m high stone wall in either hard, soft or manufactured stone.

In doing this, the candidate must:

- prepare and fix slab stone on a mortar bed
- place reinforcing, ties and fixtures
- use packers, wedges, propping, shoring and forming to maintain correct joint size, plumb, level and shape
- finish stone surfaces and rake joints.

KNOWLEDGE EVIDENCE

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

- stonemasonry regulations, standards and codes
- characteristics, applications and limitations of specified materials and products for laying stone:
    - adhesives, compounds and grout products
- types of stone:
    - basalt
    - granite
    - marble
    - sandstone
    - manufactured stone
- processes and techniques for:
    - selecting and preparing stone
    - bed stone into mortar construction
    - dry bed stone and grout construction
    - dry stone construction
    - installing manufactured stone
    - material protection and storage
- construction terminology relating to laying stone
- functional and operational features of plant, equipment and hand and power tools
- workplace procedures and workplace safety:
    - job safety and environmental analysis (JSEA)
    - exposure to silica dust
    - exposure to excessive noise
    - hazardous manual tasks

o hazardous materials • key features of working drawings and specifications • environmental requirements for workplace processes and waste disposal • digital technology to source information and communicate with others.	
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.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad