UNIT CODE	CPCCST3002
UNIT TITLE	Shape solid stone
APPLICATION	This unit specifies the skills and knowledge required to shape solid hard and soft stone. It includes using a range of shaping methods to meet required specifications. This unit applies to stonemasons who work independently, in a team or under supervision and operate machinery relating to stone work in a workshop setting, on a new site or an existing structure. 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 and prepare.	1.1 Read, interpret and apply requirements for shaping solid stone from specifications, standards and codes. 1.2 Follow requirements in workplace safety and environmental documentation and workplace procedures. 1.3 Determine job priorities and sequence job tasks in consultation with others on site. 1.4 Identify potential hazards and determine and implement control measures. 1.5 Select and check condition of plant, equipment and tools and report damage or malfunction to relevant personnel. 1.6 Check conformity of materials against the job requirements.
2. Shape stone.	2.1 Select, fit correctly and use personal protective equipment (PPE)

	appropriate for job. 2.2 Determine required stone dimensions and shape. 2.3 Dress stone using each tool for correct application and sequence. 2.4 Cut soft stone accurately to squared sizes. 2.5 Shape stone using a range of hand tools when processing at different stages. 2.6 Cut stone to size and shape. 2.7 Dress stone surfaces using abrasive machines. 2.8 Adjust machinery to stone applications and operate using jigs and guides for repetitive and fine tolerance work.
3. Use static machines to shape stone.	3.1 Conduct a pre-operation check on equipment. 3.2 Operate circular diamond saw to cut square blocks and operate with rise and fall functions for cutting profiles. 3.3 Shape stones on lathe both between centres and face work. 3.4 Operate a core drilling machine. 3.5 Shape moulded section on planer machine.
4. Clean up.	4.1 Clear the work area, and dispose of, reuse or recycle materials following workplace and environmental requirements. 4.2 Clean tools and equipment, check for serviceability and report damage or faults. 4.3 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 CPCCST3002A Shape solid 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 CPCCST3002 Shape solid stone

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by shaping one solid soft stone and one solid hard stone to specified dimensions.

In doing this, the candidate must:

- cut one stone using hand tools and power assisted hand tools
- cut one stone using a circular diamond saw.

KNOWLEDGE EVIDENCE

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

- stonemasonry regulations, standards and codes
- characteristics, applications and limitations of specified materials for shaping solid stone
- processes and techniques for:
    - shaping solid stone
    - calculating material quantities
- terminology relating to shaping solid stone
- functional and operational features of plant, equipment and hand and power tools:
    - rotary, chain and oscillating saws
    - water-jet cutting
    - planer machine
    - computer numerical control (CNC) machine
- workplace procedures and workplace safety:
    - hierarchy of control
    - exposure to silica dust
    - hazardous manual tasks
    - exposure to loud noise
- environmental requirements for workplace processes and waste disposal
- reading and interpreting plans and sketches
- Mohs scale of mineral hardness.

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