UNIT CODE	CPCCST3007
UNIT TITLE	Turn stone
APPLICATION	This unit specifies the skills and knowledge required to turn stone. It includes setting up and using machinery, turning stone and finishing surfaces. 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 or 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 and interpret turn stone requirements from specifications, standards, codes and job requirements. 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, tools and personal protective equipment (PPE), and report damage or faults to relevant person. 1.7 Check conformity of materials against job requirements.

2. Construct templates.	2.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job. 2.2 Select template material appropriate for the task. 2.3 Set out, mark design and cut to shape. 2.4 Apply template throughout the roughing out and finishing process.
3. Operate lathe and turn stone.	3.1 Identify specific features and application of the lathe relevant to task requirements. 3.2 Calculate machine speeds and feed rates and conduct a pre-operation check. 3.3 Read job sheet and select, prepare and fit specified lathe cutting tools. 3.4 Align talk stock accurately ready for operation. 3.5 Calculate and set roughing and finishing areas. 3.6 Secure stone and check holding devices are applied during a dry run check. 3.7 Perform lathe operation systematically checking contour matches template.
4 Finish and seal stone.	4.1 Check conformity against template, turn stone and finish surface. 4.2 Remove work from lathe, clean and prepare for sealant. 4.3 Apply sealant and compounds to finished stone. 4.4 Store chemical products safely in lock up cabinet.
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 CPCCST3007A Turn 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 CPCCST3007 Turn stone

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by producing two different turned stone products using one hard stone and one soft stone.

In doing this, the candidate must:

- produce one parallel pattern
- produce one tapering pattern.

KNOWLEDGE EVIDENCE

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

- types and characteristics of natural and manufactured stone:
  - granite
  - limestone
  - marble
  - sandstone
- processes and techniques for turning stone:
  - boring
  - cutting
  - shaping to parallel
  - shaping to taper
  - shaping to template
- terminology relating to turning stone
- functional and operational features of plant, equipment and hand and power tools:
  - lathe
  - abrasive heads
  - abrasive sheets
  - grinders
  - range of cutting chisels
  - battery operated tools
- template materials
  - aluminium sheet
  - cardboard
  - plastic sheets
  - plywood
  - zincalume sheet
- workplace processes and procedures
- workplace safety:
  - hierarchy of control

o exposure to silica dust o hazardous manual tasks • stonemasonry regulations, codes and standards • environmental requirements for workplace processes and waste disposal • 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