UNIT CODE	CPCCST3022
UNIT TITLE	Carry out profile work
APPLICATION	This unit specifies the skills and knowledge required to carry out profile work on the edges of soft and hard stone using profiling machinery, equipment and tools. It includes producing templates in various materials and transferring patterns onto stone. This unit applies to stonemasons who work independently or in a team and operate machinery relating to stonemasonry profile work in a workshop setting, on a new or existing structure. A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without needing close supervision. 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 profile work requirements from job and work instructions, standards and codes. 1.2 Follow relevant information from workplace procedures, workplace safety and environmental documentation. 1.3 Select tools and equipment and check for damage and faults. 1.4 Check materials comply with job requirements and place in position ready for the work.
2. Develop patterns.	2.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job.

	2.2 Transfer dimension from drawing and mark on stone using established datum points for profile set out. 2.3 Choose most appropriate dressing method for type of stone. 2.4 Carry out calculation to develop true shape for profile mould. 2.5 Set out patterns accurately for profile mould, reverse mould and bed mould to dimensions and specified shapes. 2.6 Determine allowances for fabrication processes, working off template, and transfer to bed mould.
3. Shape and profile stone.	3.1 Adjust and use power cutting tools to cut patterns for templates. 3.2 Cut template material to size minimising waste and trim to specifications. 3.3 Set up and adjust equipment and position and secure stone into place on cutting machine table ready for operation. 3.4 Set cutters and carry out initial cutting process. 3.5 Change cutters during operation to align with the profiling process. 3.6 Locate and align bed template with stone and machine operation. 3.7 Set up equipment allowing for thickness of template and gauges. 3.8 Operate equipment and accurately shape and profile stone.
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 CPCCST3022A Carry out profile work
LINKS	Companion volumes to this training package are available at the VETNet website: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-

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TITLE	Assessment requirements for CPCCST3022 Carry out profile work

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by carrying out three different profile works and which include hard and soft stone.

In doing this, the candidate must:

- produce three different profiles using three different template materials
- transfer dimensions and reference points to stone
- operate machines and equipment safely to produce profile work to specifications.

KNOWLEDGE EVIDENCE

- terminology relating to stone profile work
- processes and techniques for:
    - applying profile work too hard and soft stone
    - setting out profiles on various types of template materials:
        - aluminium sheet
        - cardboard
        - plastic sheet
        - plywood
        - zincalume sheet
- characteristics, applications and limitations of specified stone for profiling
- functional and operational features of plant, equipment and hand and power tools:
    - power grinders
    - portable machines
    - diamond cutters
    - travelling arm saws
    - battery operated tools
- workplace processes and procedures
- workplace safety:
    - job safety and environmental analysis (JSEA)
    - exposure to silica
    - hazardous manual tasks
    - electrical hazards
    - vibration
    - exposure to excessive noise
- environmental requirements for workplace processes and waste disposal
- standards and codes relating to stonemasonry
- 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