UNIT CODE	CPCCST3009
UNIT TITLE	Use computer-controlled static machinery to produce stone components
APPLICATION	This unit specifies the skills and knowledge required to produce hard and soft stone components using computer-controlled machines. It includes curved and straight moulds, levels and cuts. This unit applies to stonemasons who work independently, in a team or under supervision and operate machinery relating to stonemasonry 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 static machinery requirements from work instructions, job requirements and machine operator instructions. 1.2 Follow relevant information from workplace procedures, workplace safety and environmental documentation. 1.3 Determine job priorities and sequence job tasks in consultation with others on site. 1.4 Identify potential hazards and implement control measures. 1.5 Select and check condition of plant, equipment and tools and report damage or faults to relevant person.

	1.6 Check conformity of materials against job requirements.
2. Carry out data input.	2.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job. 2.2 Determine and state programming terms, methods, limits and data storage capacity consistent with job requirements. 2.3 Write, enter and edit program to produce straight and circular movements, compensating for tool profiles.
3. Transfer program to machine control.	3.1 Identify and record methods of transferring program into machine memory. 3.2 Load program into machine memory using appropriate techniques to meet machine and job requirements.
4. Operate loaded program to control machine.	4.1 Conduct a program dry run in simulation mode to test alarm setting and edit using control station. 4.2 Take precautions to ensure production of silica dust is minimised. 4.3 Produce specific work pieces using automatic mode.
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 CPCCST3009A Use computer-controlled static machinery to produce stone components
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 CPCCST3009 Use computer-controlled static machinery to produce stone components

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by producing two separate stone components using a computer numerically-controlled (CNC) equipment.

In doing this, the candidate must:

- produce a curved contour in hard stone
- produce a splayed shape in soft stone
- comply with manufacturer's instruction and workplace procedures.

KNOWLEDGE EVIDENCE

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

- characteristics, applications and limitations of specified materials to produce stone components
- types of natural and manufactured stone
- processes and techniques for producing stone components on static machinery
- terminology relating static machinery
- functional and operational features of plant, equipment and hand and power tools
    - CNC equipment
    - battery operated tools
- workplace policies and procedures and work instructions
- stonemasonry regulations, standards and codes
- Mohs scale of mineral hardness
- workplace safety:
    - job safety and environmental analysis (JSEA)
    - exposure to silica dust
    - hazardous manual tasks
    - exposure to loud noise
- environmental requirements for workplace processes and waste disposal
- using digital tools and devices 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