UNIT CODE	CPCCST3016
UNIT TITLE	Build solid stonemasonry walls
APPLICATION	This unit specifies the skills and knowledge required to build stonemasonry solid walls. It includes installing damp proofing and flashing. This unit applies to stonemasons who work independently or in a team to build solid stonemasonry walls 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 solid stonemasonry wall construction requirements from current plans, specifications, standards and codes. 1.2 Follow relevant information from workplace procedures, workplace safety and environmental documentation. 1.3 Use measurements and formulas to calculate material quantities. 1.4 Determine job priorities and sequence job tasks in consultation with others on site. 1.5 Identify potential hazards and determine and implement control measures. 1.6 Select and check condition of plant, equipment and tools and report damage or malfunction to relevant person.

	1.7 Check conformity of materials against the specifications and place materials in proximity of the work.
2. Set out stonework.	2.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job. 2.2 Identify structural details, loadbearing stonework and piers for stonework construction. 2.3 Establish finish heights and levels from datum and set out and mark base stonework. 2.4 Set out stonework gauge and bond. 2.5 Set out and mark load bearing stonework, damp proof course (DPC), flashing, ventilation, vermin proofing and ant capping. 2.6 Set out door and window positions to suit gauge and bond.
3. Construct solid masonry walls.	3.1 Mix mortar to colour and consistency of job requirements. 3.2 Lay base stones and construct to set out position and to level and bond. 3.3 Construct sold stonemasonry walls straight, level and plumb to allowable tolerances and with required wall ties. 3.4 Install DPC, flashings, weep holes and ventilation to comply with standards and codes. 3.5 Set out, erect, stabilise and brace work platform to workplace safety requirements. 3.6 Construct window and door openings and install flashings. 3.7 Install lintels and head flashings. 3.8 Install roof tie down to meet specifications and standards. 3.9 Set out, cut and lay sill bricks with specified slope and clearances.
4. Finish stonework.	4.1 Remove excess mortar prior to drying. 4.2 Rake or rule joints to specified profile and depth. 4.3 Bruch down and clean face 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 CPCCST3016A Build solid stonemasonry walls
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 CPCCST3016 Build solid stonemasonry walls

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by building a minimum 2.1 m long and 2.0 m high solid masonry wall with a minimum of one external or internal corner.

In doing this, the candidate must:

- set out gauge and bond, window and door opening, flashing, weepholes and ventilation
- lay stones level, straight and plumb at corners
- install lintels for opening maintaining gauge and bond.

KNOWLEDGE EVIDENCE

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

- characteristics, applications and limitations of materials for building solid masonry walls
- types of natural and manufactured stone used in wall construction:
    - limestone
    - sandstone
    - artificial stone
    - autoclaved aerated concrete (AAC)
- processes and techniques for building stonemasonry walls:
    - subfloor, wall and roof construction
    - damp proofing, flashing and ventilation
    - tying components
    - lintels and load bearing components
    - gable and eaves construction
- construction terminology relating to laying stone
- mortar ingredients and consistency
- stone bond patterns
- types and safe use of lifting equipment
- functional and operational features of plant, equipment and hand and power tools:
    - cement mixer
    - elevated work platforms (EWP)
    - power drills
    - air compressor and hoses
    - battery operated tools
- workplace processes and procedures
- workplace safety:
    - exposure to silica

o job safety and environmental analysis (JSEA) o hazardous manual tasks o working at heights o exposure to loud noise • working drawings and specifications • material protection and storage • environmental requirements for workplace processes and waste disposal • sustainability principles • construction standards, codes and regulations • key requirements of the National Construction Code (NCC) relevant to solid masonry walls • 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