UNIT CODE	CPCCBL3018
UNIT TITLE	Install aerated autoclaved concrete products
APPLICATION	This unit specifies the skills and knowledge required to install aerated autoclaved concrete (AAC) products to walls and floors of different types and styles of buildings. It includes installing AAC blockwork, lintels, floor panels and wall panels to buildings or structures. The unit applies to bricklayers and block layers who work on new and existing structures. It is suitable for people operating with some autonomy. 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. Prepare for work.	1.1 Select, fit correctly and use personal protective equipment (PPE) appropriate for job. 1.2 Read, interpret and apply AAC installation requirements from current plans, specifications, standards and codes. 1.3 Follow requirements in workplace safety and environmental documentation and workplace procedures. 1.4 Use measurements and apply formulas to calculate material quantities from plans and specifications. 1.5 Determine job priorities and sequence job tasks in consultation

	with others on site. 1.6 Identify potential hazards and determine and implement control measures. 1.7 Select and check condition of plant, equipment and tools and report damage or faults to relevant person. 1.8 Check conformity of materials against the specifications.
2. Set out AAC blocks.	2.1. Set out and mark base blockwork gauge and bond. 2.2 Set position of damp-proof course (DPC) and wall ties. 2.3 Set out and mark load bearing blockwork. 2.4 Set out door and window positions.
3.Lay AAC blockwork.	3.1 Mix adhesive and check consistency with job and manufacturer's requirements and apply evenly to AAC blocks. 3.2 Lay blocks level, plumb and to a straight line. 3.3 Install damp proofing and all associated ties. 3.4 Cut blocks accurately to maintain even bond at end of course and into openings. 3.5 Install AAC lintels level, straight and maintain bond and gauge to openings. 3.6 Fix all brackets for control joints for internal, external and wall junctions and roof tie down. 3.7 Remove excess adhesive in preparation for wall finish.
4. Install AAC floor panels.	4.1 Check floor supports are level and prepared for the AAC floor panels. 4.2 Check floor panel size, span for load design and install panels applying the manufacturer's fitting requirements. 4.3 Place reinforcement rods between the panels and apply concrete grout to a solid and flat finish. 4.4 Remove excess grout in preparation for floor finish.
5. Install AAC wall panels.	5.1 Check base is level and prepared for specified tie downs. 5.2 Set out vertical panels for load bearing application and horizontal panels for cladding to manufacturer's specifications. 5.3 Lay horizontal or vertical panels level, plumb and to a straight line

	using the recommended installation process. 5.4 Fix specified brackets to panel joins, internal, external or T intersections, structural supports and roof tie downs. 5.5 Install all damp proofing and sealants. 5.6 Remove excess adhesive and repair any damaged panels in preparation for wall finish.
6. Clean up.	6.1 Clear the work area, and dispose of, reuse or recycle materials following workplace and environmental requirements. 6.2 Clean tools and equipment, check for serviceability and report damage or faults. 6.3 Store and secure tools and equipment following workplace procedures.
FOUNDATION SKILLS Candidates require: • technology skills to: o use digital tools and devices to source job information and communicate effectively with others.	
UNIT MAPPING INFORMATION	Supersedes and is equivalent to CPCCBL3018A Install aerated autoclaved concrete products
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 CPCCBL3018 Install aerated autoclaved concrete products

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by building an aerated autoclaved concrete (AAC) block wall to a minimum height 1.5 m and minimum length of 2.0 m.

In doing this, the candidate must:

- build an external corner into the wall
- install damp proof course
- install a door opening with lintel and flashing
- install roof tie down requirements
- install AAC vertical and horizontal wall panels, using the recommended fixing system, to a minimum of a four-square metre timber wall
- comply with ACC manufacturer's specifications, standards and codes.

KNOWLEDGE EVIDENCE

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

- characteristics, applications and limitations of materials for AAC construction:
    - mortar consistency and adhesives
    - AAC block and panel bond patterns
    - expansion and control and articulation joints
- fire control and separation required by the National Construction Code (NCC) and other legislation
- processes and techniques for AAC block and panel construction:
    - vermin control and anti-termite measures
    - damp proofing, flashing and ventilation
    - wall tying components
    - lintels and load bearing components
    - timber, steel and aluminium windows
    - timber and steel door frames
    - installing AAC flooring panels to suspended flooring system, using the recommended fixings
- construction terminology relating to AAC block and panel construction
- functional and operational features of plant, equipment and hand and power tools
- workplace safety requirements:
    - job safety and environmental analysis (JSEA)
    - work at heights
    - hazardous manual tasks

o hazardous materials o exposure to silica o exposure to loud noise • features of working drawings and specification • key requirements of the National Construction Code (NCC) relevant to ACC installation • environmental requirements for workplace processes and waste disposal.
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