UNIT CODE	CPCCBL3001
UNIT TITLE	Lay paving
APPLICATION	This unit specifies the skills and knowledge required to pave external areas. It includes laying pavers to varying grades, substrates and patterns. This unit applies to those who carry out paving on new or existing residential or commercial sites. 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 and interpret paving requirements from current plans, specifications, standards and codes. 1.3 Follow requirements in workplace safety and environmental documentation and workplace procedures. 1.4 Calculate material quantities required for the task. 1.5 Determine job priorities and sequence job tasks in consultation with others on site. 1.6 Identify underground services and potential hazards and determine and implement control measures.

	1.7 Select and check condition of plant, equipment and tools and report any damage or faults to relevant person. 1.8 Check conformity of materials against the specifications and place materials ready for the work.
2. Set out for paving.	2.1 Identify sub-soil, substrate types and compaction requirements. 2.2 Identify paver thickness and bed thickness and determine excavation depth. 2.3 Set out paved area, levels, grades and finished height of pavers.
3. Prepare for paving	3.1 Excavate area to required depth, treat area for sub-soil drainage and dispose of spoil. 3.2 Position and straighten screed rails. 3.3 Spread, screed and compact bedding material to specified height. 3.4 Grade surface evenly to avoid ponding.
4. Lay pavers	4.1 Determine specified pattern, starting point, and check measurements for parallel and square. 4.2 Lay paving to specified pattern, cut segments and align joints. 4.3 Compact pavers as specified, grout joints and clean pavers. 4.4 Finish perimeters of pavers as specified.
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

Candidates require:

- numeracy skills to:
  - use measurements and formulas to calculate material quantities
  - apply measurements to set heights and paver patterns
- technology skills to:
  - use digital tools and devices to source job information and communicate effectively with others.

UNIT MAPPING INFORMATION	Supersedes and is equivalent to CPCCBL3001A Lay paving
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 CPCCBL3001 Lay paving

PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by laying two different paving patterns onto two separate areas.

In doing this, the candidate must:

- prepare and lay pavers to a specified design to an area of a minimum of 3.0 m x 2.4 m on a sand bed and fill joints with sand:
    - set out paved area and excavate for a sand bed
    - compact the substrate and sand bed using a plate compactor
- prepare and lay butter and joint clay paving bricks to an area of a minimum of 1.2 m x 1.4 m on a cement bed
- apply the appropriate paving processes for the two paved areas.

KNOWLEDGE EVIDENCE

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

- characteristics, applications and limitations of specified paving products and materials:
    - bedding materials
    - clay bricks and pavers
    - concrete blocks and pavers
    - mortar and sand
    - paving materials
    - slate
    - stone segments
    - waterproofing materials
    - mortar ingredients and consistency
    - paver sealing products
- processes and techniques for:
    - setting out paver levels and heights
    - manual and mechanical excavation
    - compacting subsoils, substrates and bedding
    - laying paving in various patterns
    - finishing paver surface evenly and free of water ponding
    - controlling surface water runoff and subsoil drainage
- construction terminology relating to paving
- functional and operational features of plant, equipment and hand and power tools:
    - plate compactors
    - cement mixers
    - wet cut saws

o battery operated tools • workplace safety: o job safety and environmental analysis (JSEA) o noise reduction o dust suppression o hazardous manual tasks o exposure to silica o exposure to loud noise • standards and codes relating to laying pavers • features of working drawings and specifications • 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