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| UNIT CODE | CPCCBL3003 |
| UNIT TITLE | Carry out cavity brick construction |
| APPLICATION | This unit specifies the skills and knowledge required to construct cavity brick buildings and structures. It includes installing moisture barriers, ventilation and roof tie downs.<br><br>This unit applies to bricklayers and blocklayers who work on new or 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.<br><br>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.<br><br>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.<br><br>1.2 Read, interpret and apply cavity brick construction requirements from current plans, specifications, standards and codes.<br><br>1.3 Follow requirements in workplace safety and environmental documentation and workplace procedures.<br><br>1.4 Use measurements and apply formulas to calculate material quantities.<br><br>1.5 Determine job priorities and sequence job tasks in consultation with others on site.<br><br>1.6 Identify potential hazards and determine and implement control |

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| | measures.<br>1.7 Select and check condition of plant, equipment and tools and report damage or faults to relevant person.<br>1.8 Check materials against the specifications and report non-conformities to relevant person. |
| 2. Set out brickwork. | 2.1 Set out and mark base brickwork.<br>2.2 Set out brickwork gauge and bond.<br>2.3 Set out load bearing brickwork.<br>2.4 Set out door and window positions. |
| 3. Construct base brickwork. | 3.1 Mix mortar to specified consistency.<br>3.2 Lay cavity brick base to set out marks.<br>3.3 Locate and install damp-proofing, weepholes and ventilation for suspended floor construction. |
| 4. Construct brick walls. | 4.1 Construct brick walls straight, plumb and level.<br>4.2 Fix wall ties to specified positions.<br>4.3 Locate and build in standard height door jambs and window frames into cavity walls.<br>4.4 Install lintels and head flashings to openings.<br>4.5 Construct gables and parapets maintaining line, level and plumb.<br>4.6 Install roof tie down and lateral support into walls.<br>4.7 Cut and lay sill bricks to a line as specified. |
| 5. Rake or rule joints. | 5.1 Rake or rule joints to specified profile and depth.<br>5.2 Brush down face of brickwork to remove unwanted mortar prior to drying. |
| 6. Clean up. | 6.1 Clear the work area, and dispose of, reuse or recycle materials following workplace and environmental requirements.<br>6.2 Clean tools and equipment, check for serviceability and report damage or faults.<br>6.3 Store and secure tools and equipment following workplace procedures. |
| FOUNDATION SKILLS | |

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| Candidates require:<br><br>• technology skills to:<br>  o use digital tools and devices to source job information and communicate effectively with others. | |
| UNIT MAPPING INFORMATION | Supersedes and is equivalent to CPCCBL3003A Carry out cavity brick construction |
| 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 CPCCBL3003 Carry out cavity brick construction |
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PERFORMANCE EVIDENCE

To demonstrate competency in this unit, a candidate must meet the performance criteria of this unit by constructing a 2.1 m long x 2.0 m high cavity brick wall which incorporates an internal and external corner.

In doing this, the candidate must:

- install damp proof course and ventilation
- install brick cavity wall ties, door jamb and window frame
- install lintels, loadbearing components and roof tie-downs
- construct parapets and install step flashing
- comply with relevant cavity brick standards and codes.

KNOWLEDGE EVIDENCE

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

- construction terminology relating to cavity brick construction
- characteristics, applications and limitations of specified materials for cavity brick construction:
    - clay bricks
    - aggregates, cement and lime
    - mortar ingredients and consistency
- processes and techniques for:
    - suspended floor construction
    - construction of cavity brick on slab construction
    - anti-termite measures
    - damp-proofing, flashing and ventilation
    - installing lintels and load bearing components
    - installing windows and doors
    - gable and eaves construction
    - level flashing for parapets
    - tie down methods and applications
    - closing of cavities and capping systems
    - fire control and separation requirements
- brick and block expansion and growth and control and articulation joints
- brick bond patterns
- functional and operational features of plant, equipment and hand and power tools:
    - battery operated tools
- workplace safety:

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| o job safety and environmental analysis (JSEA)<br>o exposure to silica dust<br>o exposure to loud noise<br>o hazardous manual tasks<br>o erecting and dismantling of scaffolds<br>• allowable brickwork tolerances stated in current and relevant Australian Standards and building codes<br>• fire control and separation codes and legislation<br>• key requirements of the National Construction Code (NCC) relevant to cavity brick construction<br>• features of working drawings and specifications<br>• 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.<br>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. |

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