



Australian Government

Department of Education, Employment and Workplace Relations

CPCCBBL3015A Construct decorative brickwork

Release: 1

CPCCBL3015A Construct decorative brickwork

Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit of competency specifies the outcomes required to construct decorative brickwork to buildings. It includes planning, set out and laying of bricks to form a decorative finish.

Application of the Unit

Application of the unit This unit of competency supports achievement of skills for laying bricks to form decorative patterns or features in brickwork, which includes working with others and as a member of a team.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units	CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry
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Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work.	<p>1.1. Work instructions, including plans, specifications, quality requirements and operational details, are obtained, confirmed and applied from relevant information to determine the required bricklaying and blocklaying tasks.</p> <p>1.2. Safety (OHS) requirements are followed in accordance with safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented.</p> <p>1.4. Plant, tools and equipment selected to carry out tasks are consistent with job requirements, checked for serviceability, and any faults are rectified or reported prior to commencement.</p> <p>1.5. Material quantity requirements are calculated in accordance with plans, specifications and quality requirements.</p> <p>1.6. Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.7. Environmental requirements are identified for the project in accordance with environmental plans and statutory and regulatory authority obligations, and are applied.</p>
2. Set out for decorative brickwork.	<p>2.1. Location and structural feature details of decorative brickwork are determined from drawings and specifications.</p> <p>2.2. Brickwork is set out according to location and dimensions from drawings and specifications.</p> <p>2.3. Mortar is mixed to specifications.</p>
3. Lay bricks to form corbels and protrusions.	<p>3.1. Corbelling design is checked from specifications to ensure overhang design is in accordance with job drawings and specifications.</p> <p>3.2. Bricks are laid to maintain bond and level alignment to form corbels to design and specifications.</p> <p>3.3. Bricks are laid to form featured protrusions in accordance with job drawings and specifications.</p>
4. Construct brickwork to acute and obtuse angled corners.	<p>4.1. Junction at corners is determined in accordance with specifications.</p> <p>4.2. Standard bricks are laid to line and level to form dogtooth and mitre junctions in accordance with specifications.</p>

ELEMENT	PERFORMANCE CRITERIA
	<p>4.3.Squints and standard bricks are laid to line and level to form designed flush junctions in accordance with specifications.</p> <p>4.4.Bond and gauge are maintained to specification.</p>
5. Lay plinth bricks or squints to form plinth areas or sills.	<p>5.1.Plinth bricks are laid to level and alignment to form protruding plinth in accordance with specifications.</p> <p>5.2.Plinth bricks or squints are laid to sill locations to form feature finish to level and alignment in accordance with specifications.</p>
6. Install decorative capping.	<p>6.1.Bricks are cut and laid on edge mitre coping to 90° corner.</p> <p>6.2.Bricks are cut and laid on edge mitre coping to 135° corner.</p>
7. Construct decorative panel.	<p>7.1.Area for set out is located, and is checked for plumb, level and to be clean and dry in accordance with manufacturer specifications.</p> <p>7.2.Panel is set out to plan and specifications.</p> <p>7.3.Whole bricks are laid to conform to the set out.</p> <p>7.4.Starting edges and feather edges are cut and laid to conform to set out.</p>
8. Finish joints.	<p>8.1.Brickwork joints in laid brickwork are raked or ruled to correct depth in accordance with job specification.</p> <p>8.2.Brickwork is brushed down prior to drying using appropriate brushing tool in accordance with job specifications.</p>
9. Clean up.	<p>9.1.Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification.</p> <p>9.2.Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

REQUIRED SKILLS AND KNOWLEDGE

Required skills

Required skills for this unit are:

- communication skills to:
 - determine requirements
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - follow instructions
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - report faults
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
- numeracy skills to apply measurements and make calculations
- organisational skills, including the ability to plan and set out work
- teamwork skills to work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities
- technological skills to:
 - use a range of mobile technology, such as two-way radio and mobile phones
 - voice and hand signals to access and understand site-specific instructions.

Required knowledge

Required knowledge for this unit is:

- construction terminology
- decorative brickwork materials
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- plans, specifications and drawings
- processes for the calculation of material requirements
- quality requirements for decorative brickwork
- techniques for constructing decorative brickwork
- types, characteristics, uses and limitations of plant, tools and equipment
- workplace and equipment safety requirements.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

A person who demonstrates competency in this unit must be able to provide evidence of the ability to:

- locate, interpret and apply relevant information, standards and specifications
- comply with site safety plan and OHS legislation, regulations and codes of practice applicable to workplace operations
- comply with organisational policies and procedures, including quality requirements
- safely and effectively use tools, plant and equipment
- communicate and work effectively and safely with others
- as a minimum, construct a wall of 3 course corbel to decorative features; construct a 90° and a 135° corner using squints, dog toothing and mitre to a minimum of 600mm high; cut and lay brick on edge coping to 90° and 135° corner; using standard bricks, squints and plinths, lay return corner sills to 90° and 135° corners and construct a herring bone panel of 900 x 1200mm, ensuring:
 - correct identification of requirement and finishing of the tasks
 - correct selection and use of appropriate processes, tools and equipment
 - completing all work to specification.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

EVIDENCE GUIDE

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the mandatory task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying safe work practices
- support materials appropriate to activity
- workplace instructions relating to safe work practices and addressing hazards and emergencies
- material safety data sheets
- research resources, including industry related systems information.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role

EVIDENCE GUIDE

and the practical requirements of the workplace

- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice, with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Information includes:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions where specified
- memos

RANGE STATEMENT

Bricklaying and blocklaying tasks:

Safety (OHS) is to be in accordance with legislation, regulations, codes of practice, organisational safety policies and procedures, and project safety plan and may include:

- MSDS
- organisation work specifications and requirements
- plans and specifications
- regulatory and legislative requirements pertaining to constructing decorative brickwork
- relevant Australian standards
- safe work procedures related to constructing decorative brickwork
- signage
- verbal or written and graphical instructions
- work bulletins
- work schedules.
- include all clay brick (wire cut/pressed) and concrete block (hollow and solid) masonry work
- may be performed on a new construction site, an existing structure being renovated or extended or an existing structure subject to service restoration or maintenance.
- emergency procedures, including emergency shutdown and stopping, extinguishing fires, organisational first aid requirements and evacuation
- handling of materials
- hazard control
- hazardous materials and substances
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - earth leakage boxes
 - lighting
 - power cables, including overhead service trays, cables and conduits
 - restricted access barriers
 - surrounding structures
 - traffic control
 - trip hazards
 - underground services, including water, gas, electricity and communications

RANGE STATEMENT

Tools and equipment:

- work site visitors and the public
- working at heights
- working in confined spaces
- working in proximity to others
- working with dangerous materials
- organisational first aid
- personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
- use of firefighting equipment
- use of tools and equipment
- workplace environment and safety.
- include:
 - bolsters
 - brick grabs
 - brooms
 - builders' lines
 - concrete mixers
 - elevators
 - hammers (brickies, club and scutch)
 - hoses
 - jig saws
 - jointing tools
 - line blocks
 - line pins
 - masonry saws
 - measuring tapes and rules
 - mortar boards
 - margin or raking tools
 - profiles
 - shovels
 - spirit levels
 - straight edges
 - trowels
 - wheelbarrows
- may include:
 - brick buggies
 - forklifts

RANGE STATEMENT

	<ul style="list-style-type: none"> • materials hoists • pallet trolleys • scaffolds.
<i>Quality requirements</i> include relevant regulations, including:	<ul style="list-style-type: none"> • Australian standards • internal company quality policy and standards • manufacturer specifications, where specified • workplace operations and procedures.
<i>Materials</i> include:	<ul style="list-style-type: none"> • aggregates • cement • clay bricks • lime • masonry blocks • reinforcing materials • sealants • timber and plyboard • waterproofing materials.
<i>Environmental requirements</i> include:	<ul style="list-style-type: none"> • clean-up protection • noise and dust • vibration • waste management.
<i>Statutory and regulatory authorities</i> include:	<ul style="list-style-type: none"> • federal, state and local authorities administering applicable Acts, regulations and codes of practice.
<i>Decorative brickwork</i> includes:	<ul style="list-style-type: none"> • angles • corbelling • irregular corner junctions (special bricks, plinth and sill finishes) • panelling • protrusions.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area