

<b>Training Package</b>	<b>General Construction (BCG03)</b>	<b>HSC Requirements and Advice</b>
<b>Title</b>	<b>Carry out masonry veneer construction</b>	
<b>Unit code</b> <b>BCGBL3002B</b>	<b>Unit Descriptor</b> This unit specifies the competency required to construct masonry veneer buildings and structures. It includes the planning, preparation, set out and installation of the masonry.	<b>HSC Indicative Hours</b>  <b>30</b>

### Evidence Guide

The Evidence Guide identifies the critical aspects, knowledge and skills to be demonstrated to confirm competency for this unit. This is an integral part of the assessment of competency and should be read in conjunction with the Performance Criteria, the Range Statement, and the Assessment Guidelines of the Training Package.

<b>Specific knowledge required to achieve the performance criteria</b>	<b>Relationship to other units</b>	<b>Specific resource requirements for this unit</b>	<b>HSC Requirements and Advice</b>
<p>A knowledge of:</p> <ul style="list-style-type: none"> <li>workplace and equipment safety requirements</li> <li>quality requirements</li> <li>general construction terminology</li> <li>plant, tools and equipment types, characteristics, uses and limitations</li> <li>the techniques of masonry veneer construction including gable and eaves construction, damp proofing, flashings and ventilation, vermin control, anti-termite measures, floor, wall and roof members, tying components, timber shrinkage, sub-floor construction, lintels and load bearing components</li> <li>characteristics and applications of materials for masonry veneer construction</li> <li>processes for the calculation of material requirements</li> <li>Material Safety Data Sheets</li> <li>plans, drawings and specifications</li> <li>materials handling, storage and environmentally friendly waste management</li> <li>measurement and calculation</li> <li>brick and block expansion and growth, control and articulation joints</li> <li>brick bond patterns</li> <li>communication processes – verbal and signalling</li> <li>JSA's/Safe work method statement.</li> </ul>	<p>Pre-requisite units are:</p> <ul style="list-style-type: none"> <li>BCGCM1001B Follow OH&amp;S policies and procedures.</li> </ul> <p>Competency in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.</p>	<p>The following resources should be made available:</p> <ul style="list-style-type: none"> <li>workplace location or simulated workplace</li> <li>materials relevant to constructing masonry veneer construction</li> <li>hand and power tools, plant and equipment appropriate to masonry veneer construction</li> <li>realistic tasks covering the mandatory task requirements</li> <li>specifications and work instructions.</li> </ul>	<p><b>Key Terms and Concepts</b></p> <ul style="list-style-type: none"> <li>barricades</li> <li>below floor construction</li> <li>brick bond patterns</li> <li>brick/block course</li> <li>bricks/blocks</li> <li>calculation of materials</li> <li>caulking materials</li> <li>cavity</li> <li>clean, maintain and store tools and equipment</li> <li>clean up</li> <li>communication</li> <li>control joints</li> <li>damp proof course</li> <li>eaves/gable</li> <li>environmental protection</li> <li>features, purpose and working knowledge of tools and equipment</li> <li>flashings</li> <li>gauge rods</li> </ul>

Context of assessment	Critical aspects of evidence required to demonstrate competency in this unit	Methods of assessment	HSC Requirements And Advice
<p>The application of competency is to be assessed in the workplace or realistically simulated workplace.</p> <p>Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints.</p> <p>Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context.</p> <p>Assessment is to comply with relevant regulatory or Australian Standards requirements.</p>	<p>Location, interpretation and application of relevant information, standards and specifications.</p> <p>Compliance with site safety plan and OH&amp;S legislation/regulations/codes of practice applicable to workplace operations.</p> <p>Compliance with organisational policies and procedures including quality requirements.</p> <p>Safe and effective operational use of tools, plant and equipment.</p> <p>Communication and working effectively and safely with others</p> <p><i>As a minimum, given the plans and specifications,</i></p> <ul style="list-style-type: none"> <li>• <i>construct a section of a brick veneer building including set out and gauge brickwork to a base; DPC (if applicable), weepholes, air vents, control joints and veneer ties; lintels and flashings; brick gables; and brick sills and flashings, ensuring:</i> <ul style="list-style-type: none"> <li>- <i>correct identification of requirement and finishing of the task</i></li> <li>- <i>correct selection and use of appropriate processes, tools and equipment</i></li> <li>- <i>completing all work to specification</i></li> </ul> </li> </ul>	<p>Assessment must satisfy the endorsed assessment guidelines of the Building and Construction industry's General Construction Training Package.</p> <p>Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge.</p> <p>Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies.</p> <p>Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge.</p> <p>Assessment may be applied under project related conditions (real or simulated) and require evidence of process.</p> <p>Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.</p> <p>Assessment may be in conjunction with assessment of other units of competency, including those listed above.</p>	<ul style="list-style-type: none"> <li>• handling, application, transport and storage of materials</li> <li>• identify and rectify/report faults</li> <li>• lintels</li> <li>• masonry veneer construction techniques</li> <li>• Material Safety Data Sheets (MSDS)</li> <li>• measurement and calculation</li> <li>• moisture control</li> <li>• mortar types</li> <li>• occupational health and safety (OHS)</li> <li>• project environment management plan</li> <li>• project/site safety plan</li> <li>• quality assurance</li> <li>• raking/ruling joints</li> <li>• safe work practices</li> <li>• signage</li> <li>• speciality products/accessories</li> <li>• structural frame</li> <li>• sub-floor ventilation</li> <li>• symbols/abbreviations/terminology</li> <li>• ventilation</li> <li>• waste management</li> <li>• weepholes</li> <li>• work instructions</li> <li>• work platforms.</li> </ul>

## Specific key competencies, underpinning and employability skills required to achieve the performance criteria

These include a number of processes that are learned throughout work and life, which are required in most jobs. Some of these are covered by the national key competencies, although others may be added. The details below highlight how these competencies are to be applied in the attainment of this unit.

Application of the key competencies in this unit are to satisfy the nominated level in which:

Level 1 – relates to working effectively within set conditions and processes;

Level 2 – relates to the management or facilitation of conditions and processes; and

Level 3 – relates to the design, development and evaluation of conditions or process.

How will the candidate apply the following key competency in this unit? **The candidate will need to:**

Collect, analyse and organise information	Level 2	Collect, organise, interpret and understand the information required for masonry veneer construction, including work instructions, plans/sketches/diagrams, safety instructions, signage, labels, quality procedures, manufacturer's instructions, material safety data sheets and equipment instructions
Communicate ideas and information	Level 1	Communicate ideas and information orally and in writing, in simple English to enable confirmation of work requirements, passage of information and requests to other workers during operations and the reporting and recording of work outcomes
Plan and organise activities	Level 2	Conduct activities associated with masonry veneer construction, including the coordination and use of equipment, materials and tools to avoid backtracking and rework
Work with others and in a team	Level 2	Work with others and in a team by recognising dependencies and using co-operative approaches to optimise satisfaction and productivity
Solve problems	Level 2	Establish safe and effective work processes which anticipate likely problems and blockages and systematically work around these to avoid or minimise reworking and avoid wastage
Use mathematical ideas and techniques	Level 2	Use mathematical ideas and techniques to correctly calculate time to complete tasks, estimate measurements, distances and levels, calculate material requirements and establish quality checks
Use technology	Level 1	Use workplace technology related masonry veneer construction, including the use of calculators, the use of communication devices and the reporting/recording of results

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
1 Prepare for work	1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied	<p>The Range Statement provides advice to interpret the scope and context of this unit of competency allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment.</p> <p>The following variables relate to this particular unit:</p> <p><b>Unit scope</b></p> <ul style="list-style-type: none"> <li>The unit <b>requires</b> the laying of bricks to construct a brick veneer building</li> </ul> <p><b>Quality Requirements</b></p> <ul style="list-style-type: none"> <li>Quality requirements <b>are to include</b> but not be limited to relevant regulations including Australian Standards, internal company quality policy and standards, workplace operations and procedures and manufacturers specifications where specified</li> </ul> <p><b>Communications</b></p> <ul style="list-style-type: none"> <li>Communications <b>are to include</b> but not limited to verbal and visual instructions and fault reporting and <i>may include</i> mobile phone, site specific instructions, written instructions, plans or instructions related to job/task, two way radio and hand signals</li> <li>On site meeting processes <i>may include</i> notification/ scheduling (time, place, purpose), task discussions and local coordination of procedural and operational issues</li> </ul> <p><b>Information</b></p> <p>Information sources <i>may include</i> but not be limited to</p> <ul style="list-style-type: none"> <li>verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, hand drawings, memos, material safety data sheets (MSDS), diagrams or sketches</li> <li>safe work procedures related to masonry veneer construction</li> <li>manufacturers' specifications and instructions where specified</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>A range of sources for work instructions including:</p> <ul style="list-style-type: none"> <li>work schedules</li> <li>job sheet/plans/specifications</li> <li>organisation/company bulletins/memos</li> <li>Material Safety Data Sheets (MSDS)</li> <li>diagrams/sketches/maps</li> <li>job safety analysis (JSA)/safe work method statements</li> <li>regulations/legislation</li> <li>manufacturer/organisation/site guidelines, policies and procedures</li> <li>Australian Standards.</li> </ul> <p>An awareness of various modes of communication to receive work instructions including:</p> <ul style="list-style-type: none"> <li>verbal <ul style="list-style-type: none"> <li>face-to-face (supervisor to employee)</li> <li>telephone/mobile phone</li> <li>two-way radio</li> <li>on-site meetings</li> </ul> </li> <li>written communication <ul style="list-style-type: none"> <li>work plans</li> <li>memos/messages</li> <li>job descriptions/statements</li> <li>workplace forms</li> <li>rosters</li> <li>facsimile</li> <li>email</li> <li>intranet</li> </ul> </li> <li>non-verbal <ul style="list-style-type: none"> <li>gestures</li> <li>signals</li> <li>signage</li> <li>diagrams.</li> </ul> </li> </ul> <p>Planning and preparation for a range of masonry veneer construction projects.</p> <p>A basic overview of the role of employees in quality assurance.</p>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
		<ul style="list-style-type: none"> <li>organisation work specifications and requirements</li> <li>instructions issued by authorised organisational or external personnel</li> <li>relevant Australian Standards</li> </ul>	
	<p>1.2 Safety requirements are followed in accordance with safety plans and policies</p>	<p><b>Safety (OH&amp;S)</b></p> <ul style="list-style-type: none"> <li>OH&amp;S requirements <b>are to be</b> in accordance with legislation/regulations/codes of practice, organisational safety policies and procedures and project safety plan. This <i>may include</i> protective clothing and equipment, use of tools and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, organisational first aid, hazard control, hazardous materials and substances, restricted access barriers, traffic control, working at heights, working in proximity to others, worksite visitors and the public</li> <li>Personal protective equipment <b>is to include</b> that prescribed under legislation/regulation/codes of practice and workplace policies and practices</li> <li>Safe operating procedures <b>are to include</b> but not be limited to the conduct of operational risk assessment and treatments associated with power cables (including overhead service trays, cables and conduits), underground services (water, gas, electricity, communications), lighting, earth leakage boxes, trip hazards, working with dangerous materials, working in confined spaces, surrounding structures, restricted access barriers and working at heights</li> <li>Emergency procedures related to this unit <b>are to include</b> but may not be limited to emergency shutdown and stopping, extinguishing fires, organisational first aid requirements and evacuation</li> </ul> <p><b>Statutory/Regulatory Authorities</b></p> <ul style="list-style-type: none"> <li>Statutory/regulatory authorities <i>may include</i> Federal, State and Local Authorities</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>A basic awareness of occupational health and safety (OHS) regulations and legislation relevant to the construction industry.</p> <p>An awareness of project/site safety plan.</p> <p>An awareness of safe work practices including:</p> <ul style="list-style-type: none"> <li>OHS induction training (general, work activity and site-specific)</li> <li>selection, use and maintenance of personal protective equipment (PPE)</li> <li>access to appropriate communication devices</li> <li>selection of appropriate tools for the task</li> <li>correct use, maintenance and storage of tools, equipment and machinery</li> <li>correct handling, application, transport and storage of hazardous and non-hazardous materials</li> <li>safe posture (sitting, standing, bending, twisting and lifting)</li> <li>correct manual handling (lifting and transferring)</li> <li>correct selection and use of fire fighting equipment <ul style="list-style-type: none"> <li>fire blanket</li> <li>fire extinguisher/s</li> <li>fire hydrant and hose</li> </ul> </li> <li>hazard identification and risk control</li> <li>basic first aid training and access to first aid kits</li> <li>access to sufficient drinking water</li> <li>procedures to follow in the event of an emergency</li> <li>effective communication and teamwork</li> <li>adherence to work instructions and organisation/company policy and standard operating procedures.</li> </ul>

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		administering the applicable acts, regulations and codes of practice	
	1.3 Signage/barricade requirements are identified and implemented	<p><b>Communications</b></p> <ul style="list-style-type: none"> <li>Communications <b>are to include</b> but not limited to verbal and visual instructions and fault reporting and <i>may include</i> mobile phone, site specific instructions, written instructions, plans or instructions related to job/task, two way radio and hand signals</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Selection and use of standard signage and barricades common to the general construction industry as well as specific to masonry veneer projects:</p> <ul style="list-style-type: none"> <li>legislative requirements</li> <li>meaning of colour and shape</li> <li>appropriate placement and positioning.</li> </ul>
	1.4 Plant, tools and equipment selected to carry out tasks that are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement	<p><b>Tools and equipment</b></p> <ul style="list-style-type: none"> <li>Tools and equipment <b>are to include</b> but not limited to, wheelbarrows, concrete mixers, brooms, buckets, hoses, shovels, measuring tapes/rules, plumb rules, jointing tools, hammers (brickies, club, scutch), bolsters, shovels, spirit levels, dumpy levels, trowels, mortar boards, straight edges, profiles, string lines, line blocks, line pins, builders lines, masonry saws, mason's squares, jig saws, elevators, brick grabs and pointing or raking tools</li> <li>Tools and equipment <i>may include</i> scaffolds, elevators, materials hoists, forklifts, pallet trolleys, brick buggies and small petrol/diesel engines/compressors</li> </ul> <p><b>Communications</b></p> <ul style="list-style-type: none"> <li>Communications <b>are to include</b> but not limited to verbal and visual instructions and fault reporting and <i>may include</i> mobile phone, site specific instructions, written instructions, plans or instructions related to job/task, two way radio and hand signals</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>General features, purpose, maintenance and working knowledge of a range of masonry veneer tools and equipment.</p> <p>Procedures and documentation for identifying faulty tools and equipment including:</p> <ul style="list-style-type: none"> <li>malfunctions</li> <li>worn, broken or missing components</li> <li>broken or missing safety guards.</li> </ul> <p>An awareness of the signs of poor performance and inefficiency including:</p> <ul style="list-style-type: none"> <li>noise</li> <li>quality of end product</li> <li>appearance</li> <li>vibration</li> <li>rough running</li> <li>failure to start</li> <li>presence of smoke and odours</li> <li>consumption of fuel and other consumables</li> <li>blockages</li> <li>amount of maintenance required</li> <li>time taken to complete the job.</li> </ul> <p>The importance of acting within level of authority in terms of:</p> <ul style="list-style-type: none"> <li>taking initiative</li> <li>problem-solving</li> <li>decision-making.</li> </ul>

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			<p>Personnel to whom problems should be reported:</p> <ul style="list-style-type: none"> <li>• supervisor/manager</li> <li>• supplier/manufacturer.</li> </ul> <p>Reporting of serious faults including:</p> <ul style="list-style-type: none"> <li>• verbal notification to appropriate personnel</li> <li>• recorded on job card/maintenance log</li> <li>• safety/lockout tagging where appropriate.</li> </ul> <p>Reasons for safety/lockout tagging including:</p> <ul style="list-style-type: none"> <li>• ease of identification</li> <li>• evidence of serviceability</li> <li>• preventing use until repaired.</li> </ul> <p>Solutions to a range of potential faults.</p>
	<p>1.5 Material quantity requirements are calculated in accordance with plans and/or specifications</p>	<p><b>Environmental Requirements</b></p> <ul style="list-style-type: none"> <li>• Environmental requirements <b>are to include</b> but are not limited to waste management, noise, dust, vibration and clean-up management</li> </ul> <p><b>Materials</b></p> <ul style="list-style-type: none"> <li>• Materials <b>are to include</b> but not limited to clay bricks, masonry blocks, reinforcing materials, aggregates, cement and lime</li> <li>• Materials <i>may include</i> waterproofing materials</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>A working knowledge of the following to enable the calculation of quantities for masonry veneer projects:</p> <ul style="list-style-type: none"> <li>• measuring tools</li> <li>• appropriate units of measurement</li> <li>• scale drawings</li> <li>• stock sizes</li> <li>• materials lists</li> <li>• mathematical concepts and formulae</li> <li>• waste minimisation</li> <li>• working with geometric and irregular shapes.</li> </ul> <p>Measurements, calculations and determination of material quantities for a range of projects of varying complexity.</p> <p>An awareness of the consequences of incorrect measurements and calculations for the:</p> <ul style="list-style-type: none"> <li>• client</li> <li>• organisation/company</li> <li>• environment.</li> </ul> <p>Recording calculations.</p>

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	1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use	<p><b>Materials</b></p> <ul style="list-style-type: none"> <li>Materials <b>are to include</b> but not limited to clay bricks, masonry blocks, reinforcing materials, aggregates, cement and lime</li> <li>Materials <i>may include</i> waterproofing materials</li> </ul> <p><b>Safety (OH&amp;S)</b></p> <ul style="list-style-type: none"> <li>OH&amp;S requirements <b>are to be</b> in accordance with legislation/regulations/codes of practice, organisational safety policies and procedures and project safety plan. This <i>may include</i> protective clothing and equipment, use of tools and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, organisational first aid, hazard control, hazardous materials and substances, restricted access barriers, traffic control, working at heights, working in proximity to others, worksite visitors and the public</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Correct handling, application, transport and storage of hazardous and non-hazardous materials used in masonry veneer projects.</p> <p>An awareness of information provided in Material Safety Data Sheets (MSDS):</p> <ul style="list-style-type: none"> <li>manufacturer's/supplier's details</li> <li>physical description and properties</li> <li>identification of substance</li> <li>use</li> <li>ingredients</li> <li>health hazard information</li> <li>first aid</li> <li>precautions for use</li> <li>safe handling information</li> <li>control point.</li> </ul> <p>How and where to obtain required MSDS.</p>
	1.7 Environmental protection requirements are identified for the project in accordance with environmental plans and regulatory obligations and applied	<p><b>Environmental Requirements</b></p> <ul style="list-style-type: none"> <li>Environmental requirements <b>are to include</b> but are not limited to waste management, noise, dust, vibration and clean-up management</li> </ul> <p><b>Statutory/Regulatory Authorities</b></p> <ul style="list-style-type: none"> <li>Statutory/regulatory authorities <i>may include</i> Federal, State and Local Authorities administering the applicable acts, regulations and codes of practice</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Environmental hazards/threats including:</p> <ul style="list-style-type: none"> <li>chemical/gas spillage/leakage</li> <li>faulty tools, equipment and machinery</li> <li>flood</li> <li>fire</li> <li>wildlife habitat destruction</li> <li>discharge into waterways</li> <li>pollution</li> <li>soil erosion.</li> </ul> <p>Consequences of poor environmental planning for the following:</p> <ul style="list-style-type: none"> <li>waterways</li> <li>wildlife habitats</li> <li>neighbouring properties</li> <li>roads and amenities.</li> </ul> <p>An awareness of project environment management plan.</p> <p>Strategies for minimisation of potential negative</p>

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			<p>environmental impacts including:</p> <ul style="list-style-type: none"> <li>• environmental hazard identification and risk minimisation and reporting</li> <li>• minimisation strategies <ul style="list-style-type: none"> <li>- regular maintenance of machinery and equipment</li> <li>- use of biodegradable/non-toxic materials</li> <li>- silt control</li> <li>- control of run off</li> <li>- habitat protection</li> </ul> </li> <li>• re-vegetation and stabilisation</li> <li>• waste minimisation <ul style="list-style-type: none"> <li>- accurate measurements and calculations</li> <li>- recycling</li> <li>- using recyclable products</li> <li>- resource efficiency</li> </ul> </li> <li>• improvement strategies</li> <li>• environmental monitoring</li> <li>• emergency procedures.</li> </ul> <p>A basic awareness of the roles and responsibilities of the:</p> <ul style="list-style-type: none"> <li>• NSW Department of Environment and Conservation [incorporating Environment Protection Authority (EPA)]</li> <li>• local council/government.</li> </ul>
2	Set out brickwork/ blockwork	2.1 Bricks and/or blocks are identified, selected and checked for conformity with specifications and comply with standards	<p><b>Unit scope</b></p> <ul style="list-style-type: none"> <li>• Brick/block veneer construction <b>includes</b> but is not limited to straight, square and plumb brick/block, wall ties and reinforcement, damp course and flashings, installation of sills to door and window openings and lintels installed over openings and sill flashings</li> <li>• Brickwork <i>may be</i> laid on a suspended floor or a slab</li> <li>• Bricklaying and blocklaying tasks <b>include</b> all clay brick (wire cut/pressed) and concrete block (hollow and solid) masonry work</li> <li>• Bricklaying and blocklaying tasks <i>may be</i> performed on a new construction site, an existing structure being renovated or extended or an existing structure subject to service restoration or maintenance</li> </ul> <p><b>Learning experiences for the HSC must address:</b></p> <p>Awareness of a range of common brick/block products used in masonry veneer construction including:</p> <ul style="list-style-type: none"> <li>• base material/key ingredient</li> <li>• method of manufacture</li> <li>• features/finishes</li> <li>• application</li> <li>• nominal size</li> <li>• dimensional unit in application.</li> </ul> <p>A basic awareness of different mortar types including:</p> <ul style="list-style-type: none"> <li>• ingredients</li> <li>• additives</li> <li>• compatibility with brick/block product</li> <li>• mixing ratios.</li> </ul>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
		<p><b>Quality Requirements</b></p> <ul style="list-style-type: none"> <li>Quality requirements <b>are to include</b> but not be limited to relevant regulations including Australian Standards, internal company quality policy and standards, workplace operations and procedures and manufacturers specifications where specified</li> </ul> <p><b>Information</b> Information sources <i>may include</i> but not be limited to</p>	<p>A range of specialty products/accessories including:</p> <ul style="list-style-type: none"> <li>ties/reinforcements</li> <li>vents/ventilation products</li> <li>flashing</li> <li>damp course</li> <li>lintels</li> <li>termite control</li> <li>vermin barriers.</li> </ul>
	2.2 Work platform is erected in accordance with regulatory and workplace requirements	<ul style="list-style-type: none"> <li>verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, hand drawings, memos, material safety data sheets (MSDS), diagrams or sketches</li> <li>safe work procedures related to masonry veneer construction</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Awareness of a range of work platforms used in masonry veneer construction.</p> <p>Regulatory requirements regarding the erection and use of work platforms.</p>
	2.3 Location and structural details of brickwork/blockwork identified from plans and job specifications	<ul style="list-style-type: none"> <li>manufacturers' specifications and instructions where specified</li> <li>organisation work specifications and requirements</li> <li>instructions issued by authorised organisational or external personnel</li> <li>relevant Australian Standards</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Symbols/abbreviations/terminology used in plans and specifications to indicate brick/block building design features.</p>
	2.4 Base brickwork below floor construction is set out to location, dimensions and specifications in compliance with standards		<p><b>Learning experiences for the HSC must address:</b></p> <p>Methods for accurately setting out location for brickwork/blockwork:</p> <ul style="list-style-type: none"> <li>site survey</li> <li>datum point</li> <li>offsets</li> <li>pegging out</li> <li>string lines.</li> </ul> <p>Appreciation of the importance of accuracy when setting out brickwork/blockwork.</p>
	2.5 Brickwork/blockwork is set out to location and dimensions from drawings and specifications		
3 Construct base brickwork/blockwork	3.1 Mortar mix is prepared and checked for conformity and bricks/blocks laid to set out to specifications and standards		<p><b>Learning experiences for the HSC must address:</b></p> <p>The purpose of mortar ingredients including:</p> <ul style="list-style-type: none"> <li>cement</li> <li>sand</li> <li>lime</li> <li>additives</li> <li>water.</li> </ul>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
			Setting out of mortar ingredients taking into consideration: <ul style="list-style-type: none"> <li>• proximity to mixing equipment and water supply</li> <li>• safe use of power supply</li> <li>• correct manual handling</li> <li>• cross contamination of materials</li> <li>• dust suppression/control</li> <li>• location of bulk supplies</li> <li>• location of job.</li> </ul>
	3.2 Brickwork/blockwork gauge is determined and set out rod is prepared		<b>Learning experiences for the HSC must address:</b> Awareness of the features and use of gauge rods.
	3.3 Base brickwork/blockwork is constructed for veneer construction to requirements of regulations and specifications		<b>Learning experiences for the HSC must address:</b> Regulatory/industry requirements for brick/block work including: <ul style="list-style-type: none"> <li>• materials</li> <li>• bond patterns</li> <li>• dimensional controls.</li> </ul> Awareness of the role of employees in quality assurance.  Levelling procedures for first brick/block course.  Appreciation of the importance of levelling the first course of brick/block work.
	3.4 Sub-floor ventilation is installed in accordance with specifications		<b>Learning experiences for the HSC must address:</b> Methods for sub-floor construction.  An awareness of a range of sub-floor ventilation systems and their purpose.  Appropriate positioning of sub-floor ventilation.
4 Construct veneer walls	4.1 Structural frame is checked to ensure it is ready for brick/block veneer maintaining minimum cavity		<b>Learning experiences for the HSC must address:</b> Techniques for the construction of floor, wall and roof members.  Awareness of the requirements for minimum clearances between structural frames and masonry veneer surfaces.

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
			Procedures for setting and checking of profiles and string lines.
	4.2 Damp proof courses are installed to specifications and in accordance with standards		
	4.3 Ventilation for veneer construction is built to specifications and requirements of standards		<b>Learning experiences for the HSC must address:</b> Understanding of the importance of adequate ventilation and moisture control.
	4.4 Wall ties are positioned and correctly fixed to framework to standards		
	4.5 Openings are constructed and flashings installed to job specifications		
	4.6 Cavities are kept clear of mortar droppings and bridging		
	4.7 Lintels are installed to job specifications.		
	4.8 Top brickwork/blockwork is constructed to eaves/gable level in accordance with standards		<b>Learning experiences for the HSC must address:</b> Gable and eaves construction techniques.
	4.9 Veneer gable is constructed as required by plans and specifications		
	4.10 Walls are built to gauge straight and true in plumb, line and level within standards tolerance		<b>Learning experiences for the HSC must address:</b> Procedures for checking that walls are: <ul style="list-style-type: none"> <li>• plumb</li> <li>• level</li> <li>• square.</li> </ul> Awareness of the effect of timber shrinkage on walls.

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
	4.11 Control joints are formed in accordance with locations on job drawings and specifications and standards		<p><b>Learning experiences for the HSC must address:</b></p> <p>Awareness of the characteristics of a range of control joints and caulking materials and their use.</p> <p>Symbols/abbreviations/terminology used in plans and specifications to indicate control joints.</p>
	4.12 Weepholes, brick/block reinforcing, vermin proofing and wall flashing are located and built in to job specifications		<p><b>Learning experiences for the HSC must address:</b></p> <p>Awareness of the purpose of weep holes and flashings.</p> <p>Procedures for vermin proofing and the application of anti-termite controls to masonry structures.</p>
	4.13 Sill bricks are cut where required and laid to line in accordance with job specifications		<p><b>Learning experiences for the HSC must address:</b></p> <p>An awareness of common methods for cutting and trimming masonry products including the use of:</p> <ul style="list-style-type: none"> <li>• bolsters</li> <li>• scutches</li> <li>• masonry saws</li> <li>• discs.</li> </ul>
5 Rake/rule joints and clean face	5.1 Joints of laid brickwork/blockwork are raked or ruled to correct depth and profile in accordance with job specifications		
	5.2 Brickwork/blockwork is brushed down prior to drying to remove unwanted mortar and face cleaned		
	5.3 Excess mortar is removed from brick/block work surfaces and cavities are cleaned free of mortar and debris in accordance with manufacturer's recommendations, job specification and standards		
6 Clean up	6.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation/regulations/codes of practice and job specification	<p><b>Materials</b></p> <ul style="list-style-type: none"> <li>• Materials <b>are to include</b> but not limited to clay bricks, masonry blocks, reinforcing materials, aggregates, cement and lime</li> <li>• Materials <i>may include</i> waterproofing materials</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>An awareness of procedures for minimisation of impact on the environment including:</p> <ul style="list-style-type: none"> <li>• replacing disturbed or removed soil</li> </ul>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
		<p><b>Statutory/Regulatory Authorities</b></p> <ul style="list-style-type: none"> <li>Statutory/regulatory authorities <i>may include</i> Federal, State and Local Authorities administering the applicable acts, regulations and codes of practice</li> </ul> <p><b>Environmental Requirements</b></p> <ul style="list-style-type: none"> <li>Environmental requirements <b>are to include</b> but are not limited to waste management, noise, dust, vibration and clean-up management</li> </ul> <p><b>Tools and equipment</b></p> <ul style="list-style-type: none"> <li>Tools and equipment <b>are to include</b> but not limited to, wheelbarrows, concrete mixers, brooms, buckets, hoses, shovels, measuring tapes/rules, plumb rules, jointing tools, hammers (brickies, club, scutch), bolsters, shovels, spirit levels, dumpy levels, trowels, mortar boards, straight edges, profiles, string lines, line blocks, line pins, builders lines, masonry saws, mason's squares, jig saws, elevators, brick grabs and pointing or raking tools</li> </ul>	<ul style="list-style-type: none"> <li>removal and disposal of non-reusable materials in a responsible manner <ul style="list-style-type: none"> <li>work materials</li> <li>plant debris and other organic matter</li> <li>chemicals</li> </ul> </li> <li>safe storage of reusable materials in accordance with company policy</li> <li>containment of loose materials on site (such as mud, dust, litter and waste material)</li> <li>control of run-off.</li> </ul> <p>Environmental requirements for dealing with waste including:</p> <ul style="list-style-type: none"> <li>recycling <ul style="list-style-type: none"> <li>paper-based products</li> <li>plastic</li> <li>worn components</li> <li>metal components</li> <li>construction materials</li> <li>building components</li> </ul> </li> <li>approved disposal of <ul style="list-style-type: none"> <li>hazardous material</li> <li>non-hazardous material.</li> </ul> </li> </ul>
	<p>6.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices</p>	<ul style="list-style-type: none"> <li>Tools and equipment <i>may include</i> scaffolds, elevators, materials hoists, forklifts, pallet trolleys, brick buggies and small petrol/diesel engines/compressors</li> </ul>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Clean-up procedures with due consideration to the environment and OHS.</p> <p>A range of cleaning techniques including:</p> <ul style="list-style-type: none"> <li>wiping</li> <li>washing</li> <li>brushing</li> <li>sweeping</li> <li>scraping</li> <li>use of cleaning agents (chemicals, solvents and detergents).</li> </ul> <p>Cleaning equipment including</p> <ul style="list-style-type: none"> <li>high pressure water cleaner</li> <li>wet/dry vacuum</li> <li>brooms and brushes.</li> </ul> <p>Tools and equipment cleaning/maintenance requirements as necessary including:</p> <ul style="list-style-type: none"> <li>removal of dirt, dust, grease and oil</li> </ul>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
			<ul style="list-style-type: none"> <li>• sharpening</li> <li>• anti-rust treatments</li> <li>• repair/replacement of missing/damaged parts</li> <li>• scheduled servicing</li> <li>• refuel and top-up consumables.</li> </ul> <p>An awareness of issues relating to storage of tools and equipment including:</p> <ul style="list-style-type: none"> <li>• climatic effects</li> <li>• OHS considerations</li> <li>• stability</li> <li>• security</li> <li>• ease of access.</li> </ul>