



Australian Government

Department of Education, Employment and Workplace Relations

CPCCW3001A Install and finish plasterboard and fibre cement sheeting to curved walls and ceilings

Release: 1

CPCCWC3001A Install and finish plasterboard and fibre cement sheeting to curved walls and ceilings

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to fix and finish plasterboard and fibre cement sheeting to steel and timber framed curved walls and curved ceilings. It includes planning and preparation for the work, preparation of the work area for the installation process, measuring and cutting the material, fixing the material, jointing and finishing, and completion of post work clean-up activities.

Application of the Unit

Application of the unit

This unit of competency supports the attainment of skills and knowledge to install and finish plasterboard and fibre cement sheeting to curved walls and ceilings while working with others 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

Employability Skills Information

Employability skills This unit contains employability skills.

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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare.	1.1. Work instructions and operational details are obtained using relevant information, confirmed and applied for planning and preparation purposes. 1.2. Safety (OHS) requirements are followed in accordance with safety plans and policies. 1.3. Signage and barricade requirements are identified and implemented. 1.4. Tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement. 1.5. Material quantity requirements are calculated in accordance with plans and specifications and quality requirements. 1.6. Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use. 1.7. Environmental requirements are identified for the project in accordance with environmental plans and regulatory obligations and applied.
2. Prepare work area for installation processes.	2.1. Work area and substrate are prepared for application of sheeting. 2.2. Timber or steel wall and ceiling framing are checked for consistency of curve and any faults are rectified or reported. 2.3. Equipment and materials are checked against work order or manufacturers' specification and positioned in preparation for the work. 2.4. Thermal and acoustic batt insulation for walls and ceilings are selected to manufacturer specifications (RW rating).
3. Install batt system insulation.	3.1. Insulation batts are installed firmly between framing member and against lining material in accordance with manufacturer specifications. 3.2. Batts are abutted with closed joints and end of run completed with batt cut to size and fitted. 3.3. Insulation batts are installed firmly in the wall framing, ensuring clearance of framing to fix plaster sheeting. 3.4. Batts are installed to ceiling framing to a tight fit, ensuring full coverage between joists.
4. Fix plasterboard and fibre cement products	4.1. Materials are pre-conditioned for the application in accordance with manufacturer specifications.

ELEMENT

PERFORMANCE CRITERIA

to walls and ceilings.

4.2. Materials are measured and marked to ensure compliance with work requirements and minimal wastage.

4.3. Wall and ceiling sheets are cut to fit specified locations with clearance to manufacturer specifications.

4.4. Wall and ceiling sheets are fixed to specified locations with mechanical fastenings or combined adhesive and fasteners, to manufacturer specifications and relevant standards.

4.5. All work is carried out to manufacturer specifications and relevant Australian standards.

ELEMENT	PERFORMANCE CRITERIA
5. Joint and finish materials.	5.1. Compounds for backblocking and jointing are prepared to manufacturer specifications. 5.2. Backblocks are applied to specification. 5.3. Additional design details and features are identified. 5.4. Beading is installed to design requirements. 5.5. Jointing and finishing of plasterboard and fibre cement sheeting is completed in accordance with manufacturer specifications.
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. 6.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills for this unit are:

- communication skills to:
 - follow instructions
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - recognise procedures
 - report faults
- enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
- use language and concepts appropriate to cultural differences
- use and interpret non-verbal communication, such as hand signals
- written skills to record results of checks and tests and relevant work completion procedures
- evaluate own actions and make judgments about performance and necessary improvements
- identifying and accurately reporting to appropriate personnel any faults in tools,

REQUIRED SKILLS AND KNOWLEDGE

equipment or materials

- organisational skills, including the ability to plan and set out work
- respond to change and contribute to workplace responsibilities, such as current work site environmental and sustainability frameworks and management systems
- 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:

- insulation and authorised ratings
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- materials preparation and testing techniques
- plans, drawings and specifications
- processes for the calculation of material requirements
- quality requirements
- techniques for fixing materials to steel and timber frames
- techniques for applying and sanding topping compound
- techniques for handling and mixing plaster bag material
- types, uses and limitations of materials used in installation and fixing tasks
- wall and ceiling terminology
- wall and ceiling tools and equipment types, characteristics, uses and limitations
- 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 operate and use tools, plant and equipment
- communicate and work effectively and safely with others
- install and finish plasterboard or fibre cement sheeting to a curved substrate, including:
 - a minimum of two sheets
 - either mechanical or adhesive fixing systems.

Context of and specific resources for assessment

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

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:

- workplace location or simulated workplace
- materials relevant to installation and finishing operations
- hand and power tools and equipment

EVIDENCE GUIDE

appropriate to installation and finishing operations

- realistic activities covering the mandatory task requirements
- specifications and work instructions.

Assessment of this unit of competency may be in conjunction with assessment of other units commonly performed at the same time in normal job roles.

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 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

EVIDENCE GUIDE

- 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
- MSDS
- memos
- regulatory and legislative requirements pertaining the installation and finishing of plasterboard and fibre cement sheeting
- relevant Australian standards
- safe work procedures relating to the installation and finishing of plasterboard and fibre cement sheeting
- signage
- verbal, written and graphical instructions
- work bulletins

RANGE STATEMENT

- work schedules, plans and specifications.

RANGE STATEMENT

Planning and preparation include:

Safety (OHS) is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification
- work site inspection.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- hazard control
- hazardous materials and substances
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - lighting
 - manual handling
 - noise, dust and ventilation
 - power equipment
 - power sources and cables
 - traffic control
 - trip hazards
 - work site visitors and the public
 - working at heights
 - working in confined spaces
 - working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and safety.
- include:
 - broad knives
 - cement sheet cutters (electric and hand)
 - electric screw guns
 - hand sanding floats
 - hand saws
 - internal angle taping tools
 - keyhole saws (electric and hand)
 - measuring tapes and rules

Tools and equipment:

RANGE STATEMENT

- mixers (electric and hand)
- paintbrushes
- plasterboard hammers
- plasterer's trowels
- taping knives
- T-squares
- may include:
 - electric sanding floats
 - mechanical finishing tools
 - scaffold planks
 - trestles.

RANGE STATEMENT

Quality requirements include relevant regulations, including:

- Australian standards
- internal company quality policy and standards
- manufacturer specifications
- workplace operations and procedures.

Materials include:

- adhesives
- arch beads
- base
- casing beads
- corner beads
- fibre cement sheets
- finishing materials
- insulation batts
- perforated paper tape
- plasterboard
- shadowline beads.

Material **application** is to be in accordance with:

- manufacturer specifications for fibre cement sheeting
- relevant Australian standard (for plasterboard).

Environmental requirements include:

- clean-up management
- dust and noise
- vibration
- waste management.

Substrates include:

- battened masonry surfaces
- steel framing
- steel furring channels
- timber framing
- timber or steel battens.

Curved ceilings are vaulted ceilings which may be:

- cambered
- elliptical
- pitched
- undulating.

Curved surfaces include:

- bulkheads.

Finishing is to achieve:

- a smooth, flat, scratch and blemish free surface.

Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area