



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **CPCWC2001A Complete penetrations and flashings**

**Release: 1**

## CPCWC2001A Complete penetrations and flashings

### Modification History

Not Applicable

### Unit Descriptor

#### Unit descriptor

This unit of competency specifies the outcomes required to complete the penetrations and flashings associated with wall and ceiling lining. It does not cover the technical aspects of passive fire systems.

It includes planning and preparation for work, selection and safe use of tools and equipment to complete the penetrations and flashings, restoration of the integrity of the wall or ceiling, and completion of post work clean-up activities.

### Application of the Unit

**Application of the unit** This unit supports the attainment of skills and knowledge to safely and efficiently complete penetrations and flashings 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

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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.	<p>1.1. Work instructions and operational details are obtained using relevant <b>information</b>, confirmed and applied for <b>planning and preparation</b> purposes.</p> <p>1.2. <b>Safety (OHS)</b> 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. <b>Tools, plant and equipment</b> 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.</p> <p>1.5. Material quantity requirements are calculated in accordance with plans and specifications and <b>quality requirements</b>.</p> <p>1.6. <b>Materials</b> appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.7. <b>Environmental requirements</b> are identified for the project in accordance with environmental plans and regulatory obligations and applied.</p>
2. Confirm the penetration and flashing requirement.	<p>2.1. Type of <b>penetration and flashing</b> is selected to match the particular need and host materials.</p> <p>2.2. Location of the penetration is identified, set out and confirmed.</p> <p>2.3. Tools, plant 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.</p>
3. Complete the penetrations and flashings.	<p>3.1. Penetrations are completed safely and with minimal modification or damage to the host materials.</p> <p>3.2. Flashings are completed safely and with minimal modification or damage to the host materials.</p> <p>3.3. Casings, housings or other terminating points are installed and connections made in accordance with state and territory requirements.</p> <p>3.4. Proprietary sealants or caulking compounds are applied to restore the integrity of the wall or ceiling system.</p> <p>3.5. Surfaces are prepared for finishing.</p>
4. Clean up.	<p>4.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation,</p>

**ELEMENT****PERFORMANCE CRITERIA**

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- regulations, codes of practice and job specification.
- 4.2. 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, 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:

## **REQUIRED SKILLS AND KNOWLEDGE**

- 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:

- job safety analysis (JSA) and safe work method statements
- materials storage and environmentally friendly waste management
- penetration and flashing techniques
- plans, drawings and specifications
- processes for the calculation of material requirements
- quality requirements
- services locating techniques
- systems and techniques for safe handling of materials
- types of services and purposes for which penetrations and flashings are required
- types, characteristics, uses and limitations of wall and ceiling lining materials
- types, characteristics, uses and limitations of hand and power tools for wall and ceiling lining
- wall and ceiling industry terminology
- workplace and equipment safety requirements.

# Evidence Guide

## EVIDENCE GUIDE

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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
- complete a minimum of three penetration and flashing tasks, including:
  - one for electrical services
  - one for communication services.

### 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
- hand and power tools and equipment

## EVIDENCE GUIDE

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appropriate to the completion of penetrations and flashings

- 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

## EVIDENCE GUIDE

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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

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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
- material safety data sheets (MSDS)
- memos
- regulatory and legislative requirements pertaining to completion of penetrations and flashings
- relevant Australian standards
- safe work procedures relating to completion of penetrations and flashings
- signage
- verbal, written and graphical instructions

## RANGE STATEMENT

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***Planning and preparation*** include:

- work bulletins
- work schedules, plans and specifications.
- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification
- work site inspection.

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

- 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:
  - cutting edges
  - lighting
  - manual handling
  - noise, dust and ventilation
  - power equipment
  - power leads and sources
  - 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.

***Tools and equipment*** include:

- broad knives
- brooms
- electric screw guns
- hand and power drills
- hand saws
- keyhole saws

## RANGE STATEMENT

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- measuring tapes and rules
  - paintbrushes
  - plasterboard hammers
  - plasterer's trowels
  - scaffold planks
  - T squares
  - taping knives
  - trestles.
- Plant and equipment* include:
- earth leakage protection
  - lighting sets
  - power activated fasteners
  - power routers
  - power saws
  - small compressor air operated
  - small petrol or diesel engine driven generators.
- Quality requirements* include relevant regulations, including:
- Australian standards
  - internal company quality policy and standards
  - manufacturer specifications
  - workplace operations and procedures.
- Materials* include:
- beads
  - cement render
  - fibre cement sheets
  - finishing materials
  - plaster compounds
  - plasterboard
  - plasterglass sheets
  - water resistant plasterboard.
- Environmental requirements* include:
- clean-up management
  - dust and noise
  - vibration
  - waste management.
- Penetration and flashings* include those required for:
- communications
  - control joints
  - electrical power
  - plumbing.

## Unit Sector(s)

**Unit sector**                      Construction

**Co-requisite units**

**Co-requisite units**              Nil

**Functional area**

**Functional area**