



**Australian Government**

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

# **CPCPRF3013A Fabricate and install external flashings**

**Release: 1**

## **CPCPRF3013A Fabricate and install external flashings**

### **Modification History**

Not Applicable

### **Unit Descriptor**

**Unit descriptor** This unit of competency specifies the outcomes required to fabricate and install external flashings for roof and ceiling systems.

### **Application of the Unit**

**Application of the unit** Site location for work application may be either domestic or commercial and may be a new work site or an existing structure being renovated, extended, restored or maintained.

### **Licensing/Regulatory Information**

Not Applicable

### **Pre-Requisites**

#### **Prerequisite units**

CPCPCM2023A

Carry out OHS requirements

## 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. Prepare for work.	<p>1.1. Plans and specifications are obtained and confirmed by site inspection.</p> <p>1.2. <b>Safety (OHS)</b> requirements associated with fabricating and installing external flashings, and workplace <b>environmental requirements</b>, are adhered to throughout the work.</p> <p>1.3. <b>Quality assurance</b> requirements are identified and adhered to in accordance with workplace requirements.</p> <p>1.4. Tasks are planned and sequenced in conjunction with others involved in or affected by the work and <b>statutory and regulatory authority</b> requirements.</p> <p>1.5. <b>Tools and equipment</b>, including personal protective equipment, are selected and checked for serviceability.</p> <p>1.6. Work area is prepared to support efficient fabrication and installation of <b>external flashings</b>.</p>
2. Identify installation requirements.	<p>2.1. External flashings to be installed are identified and working drawings and patterns are developed from job drawings, plans, specifications, site measurements and relevant <b>information</b>.</p> <p>2.2. <b>Materials</b>, coatings, fixings, sealants and fasteners are checked for compliance with plans, specifications and standards and are compatible with adjacent materials and catchment.</p> <p>2.3. Materials are identified, ordered and collected in accordance with workplace procedures.</p> <p>2.4. Materials and equipment are checked for compliance with docket and order form and for acceptable condition, and <b>faults are reported</b>.</p>
3. Fabricate and install external flashings.	<p>3.1. External flashings are fabricated in compliance with standards, drawings, specifications and site measurements.</p> <p>3.2. Support framework is set out where required and fixed to comply with plans, specifications and manufacturer recommendations.</p> <p>3.3. Thermal insulation, where required, is set and fixed in accordance with plans, specifications and cladding manufacturer's recommendations.</p>
4. Clean up.	<p>4.1. Work area is cleared and materials disposed of or recycled in accordance with state and territory</p>

**ELEMENT****PERFORMANCE CRITERIA**

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- legislation and workplace procedures.
- 4.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and workplace procedures.
- 4.3. Documentation is completed in accordance with workplace requirements.

## 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:
  - access information
  - complete workplace documentation
  - determine requirements
  - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
  - follow instructions
  - plan and sequence tasks with others
  - 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
- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- numeracy skills to apply measurements and 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:

**REQUIRED SKILLS AND KNOWLEDGE**

- access and understand site-specific instructions in a variety of media
- use mobile communication technology.

**Required knowledge**

Required knowledge for this unit is:

- capillary action, thermal expansion and fabrication techniques to prevent leaking installations
- corrosion prevention treatment requirements of cut sheets
- design concepts and performance measures for various external flashings
- electrolysis and problems associated with the use of dissimilar metals
- job safety analysis (JSA) and safe work method statements (SWMS)
- processes of fabricating and installing external flashings
- relevant OHS regulations and fall protection codes and requirements
- relevant statutory and authority requirements related to installing external flashings
- SI system of measurement
- types of fasteners, fixings and sealants and their application to the fabrication and installation of external flashings.

# 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 providing that simulated or project-based assessment techniques fully replicate plumbing and services 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:

- locating, interpreting and applying relevant information, standards and specifications to the fabrication and installation of external flashings
- applying safety requirements throughout the work sequence, including the use of personal protective clothing and equipment
- as a minimum the ability to, given the plans and specifications:
  - fabricate and install a minimum of 2 square metres of metal ceiling and associated soffits
  - fabricate and install metal flashings to include an apron, parapet, apron wall, hanging and step, each up to a length of 1.5 metres
  - install a metal fascia up to 2 metres in length, including one external angle and one internal angle
- all fabrication and installation, ensuring:
  - correct identification of requirements and details of the proposed installations
  - correct fit of the completed installation
  - correct selection and use of appropriate processes, tools and equipment
  - completing all work to specification
  - compliance with regulations, standards and organisational quality procedures and processes
  - communicating and working effectively

## EVIDENCE GUIDE

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and safely with others.

### **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:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the minimum 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 working 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.



## EVIDENCE GUIDE

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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
- 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.

***Safety (OHS)*** is to be in accordance with commonwealth, state and territory legislation and regulations and may include:

- handling of materials
- hazard control
- personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including

## RANGE STATEMENT

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recognising and preventing hazards associated with:

- hazardous materials and substances
- service lines
- surrounding structures and facilities
- trip hazards
- use of tools and equipment
- work site visitors and the public
- working at heights
- working in proximity to others
- use of firefighting equipment
- use of first aid equipment
- workplace environment and safety.
- clean-up protection
- stormwater protection
- waste management.

***Environmental requirements***  
cover water quality management and may include:

***Quality assurance*** requirements may include:

- Environment Protection Authority (EPA)
- internal company quality assurance policy and risk management strategy
- International Standards Organisation
- site safety plan
- workplace operations and procedures.
- state or territory statutory authority
- statutory plumbing authority.

***Statutory and regulatory authorities*** include:

***Tools and equipment*** may include:

- hand and power tools
- ladders
- levelling equipment,
- lifting and load shifting equipment, including:
  - chain blocks
  - cranes
  - elevated work platforms
  - forklifts
  - hand trolleys
  - hoists and jacks
  - restricted height scaffolds
  - rollers
- measuring equipment
- perimeter guard rails.

## RANGE STATEMENT

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**External flashings** include:

- metal ceilings
- associated soffits and fascias.

**Information** may include:

- charts and hand drawings
- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions
- material safety data sheets (MSDS)
- memos
- organisation work specifications and requirements
- regulatory and legislative requirements, particularly those pertaining to:
  - building codes
  - OHS and environmental requirements
  - plumbing regulations
- relevant Australian standards
- safe work procedures relating to fabricating and installing external flashings
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.

**Materials** for fabricating and installing external flashings may include:

- blankets and batts
- cappings
- flashings
- insulation materials, such as foil laminate
- lead
- metal rainwater goods
- metal self drilling and tapping screws
- moulds
- rivets and sealants
- trims
- other approved materials.

**Fault reporting:**

- may be written or verbal
- is to be in accordance with company's workplace procedures.

## **Unit Sector(s)**

**Unit sector** Plumbing and services

## **Co-requisite units**

**Co-requisite units** Nil

## **Functional area**

**Functional area**