

Unit of Competency CPCPCM3021

Flash penetrations through roofs and walls

Application

This unit specifies the skills and knowledge required to set out, cut and flash roof and wall penetrations.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

Elements and Performance Criteria

1. Identify installation requirements.	<p>1.1 Access, read and determine flashing penetration requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.</p>
2. Prepare for work.	<p>2.1 Create a materials list and collect materials.</p> <p>2.2 Select appropriate tools and equipment, including personal protective equipment (PPE).</p>
3. Flash penetrations.	<p>3.1 Identify location of wall and roof penetrations, allowing for existing and future services.</p> <p>3.2 Set out and cut penetrations.</p> <p>3.3 Install supports as required and fit the penetrating product.</p> <p>3.4 Fit and fix purpose-made or proprietary flashing as per relevant job plans and specifications, codes, Australian standards manufacturer's specifications and jurisdictional requirements.</p> <p>3.5 Apply fire resistant requirements to penetrations to meet standards and codes where required.</p>
4. Clean up.	<p>4.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.</p> <p>4.2 Clean tools and equipment, check for serviceability and report any damage, store and secure.</p>

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCPCM3021A Flash penetrations through roofs and walls.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPCM3021

Flash penetrations through roofs and walls

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- flashing the following penetrations:
 - a square/rectangular penetration with sides greater than 300 mm through wall cladding
 - a square/rectangular penetration with sides greater than 300 mm through roof sheeting
 - a circular penetration greater than 200 mm diameter through roof sheeting.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- terminology relating to flashing penetrations
- electrolysis and the problems associated with using incompatible products
- compatibility of various roofing and wall cladding materials with different joining methods
- processes, procedures and techniques for:
 - flashing penetrations on various roof coverings
 - flashing penetrations on various wall claddings
 - fabricating and installing flashings to prevent leaking
- principles of:
 - capillary actions
 - thermal expansion
 - corrosion and preventative treatments
 - electrolysis and impact of using dissimilar metals and products
- how to access relevant information, including job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements
- tools, materials and equipment used to set out, cut and flash roof and wall penetrations
- work health and safety (WHS) requirements for setting out, cutting and flashing roof and wall penetrations.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

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