

Unit of Competency CPCPRF2022

Select and install roof sheeting and wall cladding

Application

This unit specifies the skills and knowledge to select and install insulation, roof battens and wall cladding involving metallic, non-metallic or other approved roof covering materials.

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

Prerequisite Units

CPCPCM2043 Carry out WHS requirements

CPCPCM2055 Work safely on roofs

Elements and Performance Criteria

1. Identify installation requirements.	<ul style="list-style-type: none">1.1 Access, read and determine roof sheeting and wall cladding installation requirements from job specifications, relevant Australian Standards, codes, manufacturer's instructions and jurisdictional requirements.1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.1.3 Identify whether materials to be used are compatible with the surrounding environment and other materials within the installation.1.4 Determine material types and calculate quantities from plans and specifications.1.5 Identify roof insulation and wall cladding to meet thermal, acoustic, moisture and bushfire control requirements.1.6 Identify safety mesh requirements to support the installation requirements.
2. Receive delivery of materials.	<ul style="list-style-type: none">2.1 Provide safe access for delivery vehicles and on-site workers.2.2 Determine and provide adequate load support at the point of delivery and assist in the unloading and transfer of materials.2.3 Check conformity of materials against the delivery docket and specifications and report any shortfalls or damage.2.4 Secure materials and protect from moisture and mechanical damage.
3. Prepare for work.	<ul style="list-style-type: none">3.1 Identify and check condition of plant, equipment and tools required for the installation.3.2 Select, fit and use appropriate personal protective equipment (PPE).3.3 Check fall protection system is in place and secure.
4. Install roof sheeting.	<ul style="list-style-type: none">4.1 Perform installation and fix selected insulation ensuring acoustic, thermal, moisture and bushfire control.4.2 Measure, cut and fix roof battens for the installation at correct spacings to match plans.4.3 Measure, cut, weather and install roof sheets using appropriate fastening

		spacings and methods.
	4.4	Remove swarf end of installation.
5. Install wall cladding.	5.1	Perform installation and fix selected insulation ensuring acoustic, thermal, moisture and fire control.
	5.2	Measure, cut and fasten battens at correct spacings to match plans.
	5.3	Measure, cut and install wall cladding and flashings using appropriate fastening spacing and methods.
	5.4	Install thermal breaks as required.
6. Clean up.	6.1	Remove swarf off cladding, flashings and gutter and clear any rivet stems and fasteners.
	6.2	Clear the work area and dispose of, reuse or recycle materials in accordance with state or territory legislation and workplace requirements.
	6.3	Clean tools and equipment, check for serviceability and report any damage, and store and secure.

Foundation skills

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

Unit Mapping Information

Supersedes and is non-equivalent to CPCPRF2022A Select and install roof sheeting and wall cladding, and CPCPRF3021A Receive roofing materials.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPRF2022

Select and install roof sheeting and wall cladding

Performance Evidence

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

- installing steel claddings to structures not less than 2 metres wide and 1.5 metres long including:
 - a flat deck roof system to a pitch $\geq 1^\circ$ using concealed fixing method and installing safety wire mesh, blanket and foil
 - a pitched roof system $\geq 5^\circ$ using an approved pierced fixing method and incorporating:
 - o a valley, hip, ridge and barge
 - o thermal insulation containing a blanket and foil for fire management
 - a non-structural cladded roof over rigid support using concealed fixing method including valley, hip, ridge, barge and roof discharge detail and moisture control pliable membrane
 - a sandwich panel roof or wall over supports using pierced fixing method with a minimum of two panels
 - a non-metallic roof sheet using pierced fixing and installing safety wire mesh
 - wall cladding incorporating side lapping with one external and internal corner and toe mould and including:
 - o an opening of 300 x 600 mm
 - o pliable building membrane.

All installed cladding must be weatherproof where required.

Knowledge Evidence

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

- reading and interpreting plans, including electronic plans
- current standards and codes for roof sheeting and insulation:
 - o HB39 Installation Code for metal roof and wall cladding
 - o National Construction Code (NCC)
 - o AS 1562 Design and installation of sheet roof and wall cladding
 - o AS 4200.2 Pliable building membranes and underlays - Installation
 - o AS 3999 Bulk thermal insulation - Installation
- calculation of material quantities
- receipt, storage, protection and checking quantities for delivery of roofing materials
- roof components:
 - o insulation to meet thermal acoustic, moisture and fire control

- o safety mesh
 - o rigid supports
 - o roof and safety battens
 - o fixings and fasteners
 - o metal and non-metallic roofing sheets
 - o sandwich panel
 - o thermal breaks and approved sealants
- capillary action and thermal expansion
- corrosion control
- weathering
- unloading and storage of roof materials following manufacturers' instructions:
 - o stacking dunnage
 - o environmental protection
- conformity of materials against the delivery docket
- work health and safety (WHS) requirements:
 - o working at heights
 - o fragile materials
 - o asbestos containing materials
 - o selecting and installing roof sheeting and wall cladding
- overhead hazards
- installation in bushfire prone areas and requirements of The National Association of Steel-Framed Housing (NASH) Standard for construction in bushfire areas or AS 3959 *Construction of buildings in bushfire-prone areas*
- how to access relevant information, including codes and standards
- tools, materials and equipment used to select and install roof sheeting and wall cladding.

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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