

Unit of Competency CPCPRF3025

Install roof coverings to curved roof structures

Application

This unit specifies the skills and knowledge required to set out and install a curved roof on a roof structure. It includes drawing fabrication patterns based on sketches of roof coverings, calculating curve dimensions and sheet lengths, and selecting required roofing materials.

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

CPCPCM2055 Work safely on roofs

Elements and Performance Criteria

1. Identify installation requirements.	<p>1.1 Access, read and determine curved roof covering installation requirements from job specifications, relevant Australian Standards, codes, manufacturers' instructions and jurisdictional requirements.</p> <p>1.2 Obtain, interpret and follow workplace, work health and safety (WHS), environmental and sustainability requirements associated with selecting and receiving materials and installing curved roof structures.</p>
2. Prepare for work.	<p>2.1 Ascertain curvature of roof covering and use to determine the starting and finishing points of curves.</p> <p>2.2 Create design and freehand sketch of the roof covering to form the basis of fabrication patterns.</p> <p>2.3 Draw fabrication patterns based on design and freehand sketch of roof covering.</p> <p>2.4 Calculate the quantity and type of manufactured roof covering.</p> <p>2.5 Create a materials list and collect materials.</p> <p>2.6 Select and check proposed sealant, fixing, roofing and flashing materials for compatibility.</p> <p>2.7 Select appropriate tools and equipment including personal protective equipment (PPE).</p>
3. Install roof coverings.	<p>3.1 Fix safety mesh and thermal insulation according to relevant Australian Standards, job specifications and manufacturers' instructions.</p> <p>3.2 Mark and trim sheets prior to fixing and treat cut edges according to manufacturers' instructions.</p> <p>3.3 Perform installation of roof covering according to manufacturers' instructions.</p> <p>3.4 Performance-test roof covering and make required adjustments.</p> <p>3.5 Access installation information to complete documentation according to workplace requirements.</p>

4. Clean up.	<p>4.1 Clear the work area and dispose of, reuse or recycle materials in accordance with state or territory legislation and workplace requirements.</p> <p>4.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.</p>
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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 CPCPRF3025A Install roof coverings to curved roof structures.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPRF3025

Install roof coverings to curved roof structures

Performance Evidence

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

- determining sheet length and developing a pattern or drawing for the manufacture of the curved roof components
- installing pre-curved roof covering to a bullnose or curved roof structure of a minimum eave width of three metres, incorporating:
 - one internal or one external corner
 - curved flashing or valley
- determining sheet length for a sprung-curved roof
- installing pierced-fixed convex sprung-curved roof covering to a curved roof structure, incorporating a minimum width of two sheets.

Knowledge Evidence

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

- capillary action, thermal expansion and fabrication techniques to prevent leaking installations
- processes for fixing covering to curved roof structures
- characteristics and limitations of materials for installing roof coverings to curved roofs:
 - blanket and batt types
 - curved metal roof covers of concealed or pierce-fixed types
 - metal rainwater goods
 - metal self-drilling and tapping screws
 - plastic building sheets for walls and roofs
 - rivets and sealants
 - thermal insulation of reflective foil laminates
 - other approved materials
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install roof coverings to curved roof structures
- work health and safety (WHS) requirements for installing roof coverings to curved roof structures.

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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