



Australian Government

CPCCRT3002 Tile irregular roofs

Release: 2

CPCCRT3002 Tile irregular roofs

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and equivalent to CPCCRT3002A Tile irregular roofs. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to install roof tiles to roofs incorporating irregular shapes, unequal pitches and dormer windows with tiled surrounds.

It includes the preparation, setting out, installing and fixing of tiles to a roof.

A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without close supervision.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of unit *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

CPCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.

Unit Sector

Roof tiling

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
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| 1 Plan and prepare to tile | 1.1 Read and interpret work instructions and plan sequence |
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irregular roofs.		of work.
	1.2	Plan all work to comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications and workplace requirements.
	1.3	Select and use personal protective equipment (PPE) for each stage of the task.
	1.4	Inspect work site, assess hazards and apply risk controls, including required signage and barricades.
	1.5	Select tools and equipment, check for serviceability and report any faults.
	1.6	Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.
2 Prepare roof face.	2.1	Check that fall safety devices have been installed correctly.
	2.2	Handle, assemble and erect elevator at job location.
	2.3	Check roof surface and structure for stability, and for safe access to roof for tile installation.
	2.4	Set out roof surface, and sark.
3 Install tiles.	3.1	Load, support and evenly distribute tiles on roof.
	3.2	Spread out, secure and install roof tiles.
	3.3	Bed hip and ridge tiles using specified bedding mix, maintaining alignment.
	3.4	Point hips, ridges and gables in flexible pointing to a smooth and even finish.
4 Tile roof openings and lay back surfaces and/or facades.	4.1	Check opening surrounds for soakers and flashings and prepare for tiles.
	4.2	Tile surrounds and flashings.

- 4.3 Distribute and secure tiles to steep and vertical surfaces to Australian Standards.
- 5 Clean up.
 - 5.1 Clear roof, guttering and downpipes of waste and surplus material.
 - 5.2 Clear work area, dispose of materials, and reuse or recycle in compliance with legislation, regulations and codes of practice.
 - 5.3 Clean, check, maintain and store tools and equipment in accordance with manufacturers' specifications.

Foundation Skills

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

Unit Mapping Information

Supersedes and equivalent to CPCCR3002A Tile irregular roofs.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCR3002 Tile irregular roofs

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Performance Evidence

To demonstrate competency, a candidate must satisfy all of the elements, performance criteria and foundation skills of this unit by:

tiling roof construction systems and structures, including:

- roofs constructed to irregular shaped plans where corners are not right-angled
- bastard valley
- eight hip hex
- splayed gable
- butt ridging
- mitred apex
- steep hip and valley roof (minimum 35° pitch)
- soldier course valley
- turrets
- unequal pitch surfaces
- Cape Cod
- mansard
- bellcast
- pyramid or four way apex
- openings in irregular roofs, including:
 - chimneys
 - roof ventilators
 - cupolas
 - dormer windows
 - two storey inserts
 - skylights
 - pipes
 - flues.

These roof construction systems and structures must include those with:

- metal battens and metal frame
- metal battens and timber frame
- timber battens and metal frame
- timber battens and timber frame.

All work must be performed to the standard required in the workplace and must comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications and workplace requirements.

Knowledge Evidence

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

- compliance requirements of the NCC and Australian Standards for tiling irregular roofs
- workplace quality policies and standards for tiling irregular roofs
- safety requirements for tiling irregular roofs, including:
 - job safety analyses and/or safe work method statements in accordance with Safe Work Australia *Code of Practice for Construction Work* or state and/or territory equivalent
 - safety data sheets (SDS)
 - personal protective equipment (PPE)
- environmental requirements for tiling irregular roofs
- characteristics and applications of roof tiling materials:
 - adhesives
 - concrete and terracotta tiles
 - fastenings and other mechanical fixings
 - flashings
 - bedding
 - sarking materials
 - timber and metal frames and battens
 - flexible pointing material
 - shingles
 - slate
 - storm seal/prestite
 - bed and point valleys
- types and uses of materials storage and environmentally friendly waste management
- measuring and marking for tiling irregular roofs
- types and uses of plans, drawings and specifications for tiling irregular roofs
- types and uses of tools and equipment for tiling irregular roofs
- processes for the calculation of materials requirements for tiling irregular roofs
- types and uses of roof construction systems and structures, and tiling considerations for irregular roofs, including:

- roofs constructed to irregular shaped plans where corners are not right-angled
 - bastard valley
 - eight hip hex
 - splayed gable
 - butt ridging
 - mitred apex
 - steep hip and valley roof (minimum 35° pitch)
 - soldier course valley
 - turrets
 - unequal pitch surfaces
 - Cape Cod
 - mansard
 - bellcast
 - pyramid or four way apex
 - openings in irregular roofs:
 - chimneys
 - roof ventilators
 - cupolas
 - dormer windows
 - two storey inserts
 - skylights
 - pipes
 - flues
- roof tiling techniques and processes.

Assessment Conditions

Assessors must meet the requirements for assessors contained 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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