



**Australian Government**

# **CPCCWP5003 Design waterproofing to internal wet area**

**Release: 1**

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## Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 9.0.  
Newly created unit.

## Application

This unit of competency specifies the skills and knowledge required for designing waterproofing systems to internal wet areas for buildings.

The unit applies to Class 1 and 10 Buildings, and Class 2 to 9 Buildings.

The unit includes planning and preparing to design waterproofing systems, analysing risk, designing waterproofing and evaluating the design of the waterproofing system solution.

The unit is suitable for builders, building designers, architects, building surveyors, waterproofing design specialists and consultants, engineers and other design specialists.

Licensing, legislative, regulatory or certification requirements may apply to this unit. Relevant work health and safety (WHS) state and territory regulatory authorities should be consulted to confirm jurisdictional requirements.

## Pre-requisite Unit

Nil.

## Unit Sector

Building and Construction

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- |                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Plan and prepare. | 1.1 Identify internal wet areas and waterproofing requirements in accordance with National Construction Code (NCC) and from drawings and specifications. |
|                      | 1.2 Identify types of construction and their permeability to water and moisture, including concrete, masonry and framing.                                |

- 1.3 Determine the use of the wet area to be waterproofed and categorise as low, medium or high usage, including finishes in accordance with client's needs and use of wet area.
  - 1.4 Identify shower type to inform the design.
  - 1.5 Identify extent of membrane application to inform the design.
  - 1.6 Identify egress points to inform the design.
  - 1.7 Identify potential water ingress points for the construction.
  - 1.8 Determine the scope of project, conditions to be managed and waterproofing requirements to be achieved.
  - 1.9 Determine outfalls to suit water inlet and use of area.
2. Carry out risk analysis.
  - 2.1 Assess risk of water bearing to full extent of application and the effects of charged dynamic water movement in high usage conditions.
  - 2.2 Assess risks of defects in the waterproofing systems.
  - 2.3 Assess consequence of water and moisture ingress into space outside of the wet area.
  - 2.4 Assess and manage interstitial condensation within building elements as part of design.
  - 2.5 Determine effects of water and moisture on building elements.
  - 2.6 Determine feasibility of repair and maintenance of the waterproofing system.
  - 2.7 Identify site environmental conditions according to approved plans, including surface and sub-surface drainage.
3. Carry out waterproofing design.
  - 3.1 Confirm type of wet area for use and confirm shower type and components.
  - 3.2 Confirm other fittings and fixtures in internal wet area,

- including bath type and position, vanity type and position, toilet/bidet type and position.
- 3.3 Identify internal wet area waterproofing systems available to suit the design that are appropriate for the conditions.
  - 3.4 Develop design requirements for level of risk to moisture and water exposure in consultation with stakeholders.
  - 3.5 Provide a scope for the installation of the internal wet area waterproofing system, including substrate considerations and compatibility with finishes, in accordance with specifications.
  - 3.6 Provide quality assurance inspection protocols for internal wet area waterproofing system installation, including substrate assessment for suitability, compliance of membrane installation with manufacturers' specifications, completion inspection processes, and repair and maintenance plan.
4. Evaluate waterproofing design.
- 4.1 Assess effectiveness of internal wet area waterproofing systems design for suitability with site conditions and consequential effect where water bears at the maximum designed level, defects are present in the waterproofing system and defects impact the usage of adjoining areas.
  - 4.2 Review repair and maintenance plan of internal wet area waterproofing system.
  - 4.3 Record and report on compliant internal wet area waterproofing design solutions to stakeholders in accordance with service conditions and manufacturers' specifications, Australian Standards, and NCC performance requirements.

## Foundation Skills

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

## Unit Mapping Information

No equivalent unit.

## 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>