



Australian Government

CPCCPWP3003 Apply waterproofing process to external above-ground wet areas

Release: 3

CPCCWP3003 Apply waterproofing process to external above-ground wet areas

Modification History

- Release 3 Updated reference to general construction induction training program.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Change to Unit Sector.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and equivalent to CPCCWP3003A Apply waterproofing process to external wet areas. Change to title. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to apply waterproofing to external above-ground wet areas, meeting all relevant requirements of Australian Standards, work health and safety (WHS) requirements, and Commonwealth and state or territory legislation.

It includes identification of the appropriate waterproofing system to be used, its preparation and its application.

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 *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

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Construction waterproofing

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 apply waterproofing process to external above-ground wet areas. | 1.1 Read and interpret work instructions and plan sequence of work. |
| | 1.2 Select and use personal protective equipment (PPE) as required for each stage of the task. |
| | 1.3 Plan all work to comply with laws and regulations, Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, workplace requirements, drawings and specifications. |
| | 1.4 Follow requirements of job safety analyses and safety data sheets. |
| | 1.5 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. |
| | 1.6 Select tools and equipment, check for serviceability and report any faults. |
| | 1.7 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use. |
| 2 Select waterproofing system. | 2.1 Locate external above-ground area to be waterproofed from drawings and specifications. |
| | 2.2 Check area for soundness and surface defects. |
| | 2.3 Select waterproofing systems suitable for and compatible with site conditions and substrate. |
| 3 Prepare for waterproofing installation. | 3.1 Set out above-ground external wet area and check alignment, fixtures and finished levels for conformity with drawings and specifications, and report defects. |
| | 3.2 Test moisture content in substrate for compatibility with system and report defects. |
| | 3.3 Check adequacy of drainage and report defects. |

- 3.4 Prepare flashings and termination seals and make ready for installation to manufacturers' specifications.
 - 3.5 Check that substrate has a uniform finish to manufacturers' instructions.
 - 3.6 Clean and prepare substrate ready for waterproofing and sealant.
 - 3.7 Prime substrate ready for waterproofing and sealant.
- 4 Apply waterproofing.
 - 4.1 Apply waterproofing system to prepared surface to manufacturers' specifications.
 - 4.2 Detail and terminate waterproofing membrane in accordance with system requirements.
 - 4.3 Check completed waterproofing installation for conformity to manufacturers' specifications.
 - 4.4 Document movement joints for subsequent trades.
 - 4.5 Perform final inspection and completion activities.
 - 4.6 Protect waterproofing membrane.
- 5 Apply sealants to construction joints.
 - 5.1 Select sealant for compatibility with application, substrate and finishes.
 - 5.2 Install backing rods and/or release agents to prevent three-sided adhesion.
 - 5.3 Apply sealant manufacturers' specifications, tool to required finish and allow to cure.
 - 5.4 Perform final inspection and completion activities.
 - 5.5 Protect sealant, in accordance with manufacturers' specifications.
- 6 Clean up.
 - 6.1 Clear work area, dispose of materials, and reuse or recycle in compliance with legislation, regulations and codes of practice.

- 6.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' recommendations.

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 CPCCWP3003A Apply waterproofing process to external wet areas.

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 CPCWP3003 Apply waterproofing process to external above-ground wet areas

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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:

- waterproofing:
 - a minimum four square metres of a balcony/deck:
 - where the structural floor levels have a step down of no less than 40 millimetres from internal to external
 - the balcony/deck has fall to the drainage point
 - detailing is provided through threshold cross-section, indicating how waterproofing would terminate at balustrade posts
 - a minimum 600 millimetres x 600 millimetres x 300 millimetres high planter box
- installing sealant to a minimum 900 millimetres long x 25 millimetres wide external above-ground construction joint for waterproofing.

All work must be performed to the standard required in the workplace and must comply with laws and regulations, 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:

- requirements of Australian Standards for waterproofing above-ground external wet areas
- safety requirements for waterproofing above-ground external wet areas, 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)
- manufacturers' specifications for waterproofing systems and materials
- waterproofing around fixtures:
 - balustrades
 - posts
 - service penetrations
 - drainage angles and drip moulds
 - skylights
- assessment and appreciation of moisture content in substrate materials for waterproofing above-ground external wet areas
- waterproofing materials, processes and systems for external wet areas:
 - waterproofing systems/materials:
 - water-based
 - cementitious
 - moisture-cured
 - sprayed material membranes
 - sheet:
 - butyl
 - ethylene propylene diene monomer rubber (EPDM)
 - polyvinyl chloride (PVC)
 - decoupling
 - ancillary materials:
 - adhesives
 - drainage cell
 - geotech fabric
 - protection board
 - sealants
 - drainage flanges
 - penetration flashings
 - water stops
- application of sealants:
 - silicones
 - polyurethanes
 - modified silanes
 - SPUR
- methods for avoiding three-sided adhesion:
 - backing rods

- release tapes
- characteristics and applications of waterproofing materials and adhesives for above-ground external wet areas
- construction systems and waterproofing considerations for external above-ground wet areas:
 - compatibility of systems
 - design principles
 - drainage requirements
 - hydrostatic pressures
 - structural movement
 - substrate type and condition
 - environmental factors:
 - substrate
 - materials
 - ambient temperatures
 - allowing water flow
 - slope, fall and grade of surfaces
 - water run-off and impact on adjoining property
 - waterproofing protection
- types and uses of materials storage and environmentally friendly waste management
- types and uses of plans, drawings and specifications for waterproofing above-ground external wet areas
- types and uses of tools and equipment for waterproofing external above-ground wet areas
- principles and considerations of water exclusion
- processes for the calculation of material requirements for waterproofing external above-ground wet areas
- quality requirements for waterproofing external above-ground wet areas
- termination, cross cavity and overflashing requirements
- testing procedures for waterproof membrane systems.

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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