



Australian Government

CPCCW3004 Apply waterproofing remedial processes

Release: 3

CPCCWP3004 Apply waterproofing remedial processes

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 CPCCWP3004A Apply waterproofing remedial processes. Updated to meet the Standards for Training Packages 2012.

Application

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

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 Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Plan and prepare to apply waterproofing remedial processes.	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 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.
2 Select waterproofing remedial process and techniques.	2.1 Inspect and analyse defect that requires application of waterproofing remedial processes. 2.2 Select techniques and materials for the waterproofing remedial process in accordance with manufacturers' specifications.
3 Apply waterproofing remedial process and techniques.	3.1 Prepare materials for remedial process to manufacturers' recommendations. 3.2 Prepare and set up application equipment. 3.3 Prepare substrate for application. 3.4 Apply remedial waterproofing process to manufacturers' recommendations. 3.5 Perform tests to confirm effectiveness of repair.
4 Clean up.	4.1 Clear work area, dispose of materials, and reuse or recycle in compliance with legislation, regulations and codes of practice. 4.2 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 CPCCWP3004A Apply waterproofing remedial processes.

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 CPCCWP3004 Apply waterproofing remedial processes

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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:

- analysing defects that require application of waterproofing remedial systems in each of the following:
 - a crack in concrete or masonry of a minimum 900 millimetres
 - a cracked concrete or masonry floor/wall junction of a minimum 900 millimetres
 - rising damp in a minimum 900 millimetre length of concrete/masonry wall
 - a live leak in concrete or masonry
 - a damaged waterproofing membrane
- selecting waterproofing remedial techniques for each of the above waterproofing remedial processes
- repairing a minimum of two of the above defects using at least three different remedial waterproofing techniques.

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 applying waterproofing remedial processes
- safety requirements for applying waterproofing remedial processes, 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)
- tests of effectiveness of remedial waterproofing:
 - water test
 - flood test
 - moisture readings
 - thermal survey
 - visual inspection
- manufacturers' specifications for waterproofing systems and materials
- remedial waterproofing techniques:
 - remedial injection epoxies or urethanes
 - hydraulic plug or seals
 - cement crystallisation or hydrostatic coating methods
 - concrete repair systems
 - damp-proof course injections
 - application of densifiers
 - remediation to damaged membrane systems
- characteristics and applications of remedial waterproofing materials:
 - cementitious products
 - epoxies
 - expanding polyurethane foam
 - polyurethane resin systems
 - silicon, silane and siloxane products
 - single and dual component resins
- construction systems and waterproofing considerations:
 - barriers to stop rising damp
 - concrete crystallisation/injection
 - concrete repair injection hydrostatic barrier coatings
 - membranes
 - saturants on an external wall (in case of flood)
- types and uses of materials storage and environmentally friendly waste management
- technical specifications for applying waterproofing remediation
- types and uses of tools and equipment
- principles and considerations of water exclusion
- quality requirements for waterproofing remediation.

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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