

UNIT CODE	CPCCWP5005
UNIT TITLE	Prepare a scope of works for remedial waterproofing
APPLICATION	<p>This unit of competency specifies the skills and knowledge required to prepare a report for remedial scoping requirements as a result of the diagnosis of cause of water and moisture ingress in construction.</p> <p>The unit applies to Class 1 and 10 Buildings, and Class 2 to 9 Buildings.</p> <p>The unit covers planning and preparing to develop a scope of works, developing the scope and specifications and documenting the scope of works and specifications.</p> <p>The unit is suitable for builders, building supervisors building surveyors, building designers, architects, waterproofing design specialists, waterproofing supervisors, and consultants, engineers or other design specialists.</p> <p><u>Licensing, legislative, regulatory or certification requirements</u> may apply to this unit. Relevant work health and safety state and territory regulatory authorities should be consulted to confirm jurisdictional requirements.</p>
PREREQUISITE UNIT	Determine origin of water and moisture ingress into buildings
COMPETENCY FIELD	Building and Construction
UNIT SECTOR	Building and Construction

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes of the unit.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Plan and prepare.	<p>1.1 Review design specifications and water ingress report, including drawings, building and structures.</p> <p>1.2 Confirm stakeholder's design brief and expectations, including timelines, finishes, systems and warranty.</p> <p>1.3 Confirm relevant regulatory requirements.</p> <p>1.4 Liaise with other specialist consultants, including engineers, building surveyors and local councils.</p>
2. Develop scope and specifications.	<p>2.1 Determine extent of the scope of works, including site conditions, demolition, occupant use, safety, specifications and quality assurance.</p> <p>2.2 Develop waterproofing design in line with design brief.</p> <p>2.3 Consult with product manufacturers and research appropriate systems in line with design brief.</p> <p>2.4 Confirm effectiveness of waterproofing design for compliance and suitability with site conditions in accordance with National Construction Code (NCC) performance requirements, Australian Standards and manufacturers' requirements.</p>
3. Document scope of works and specifications.	<p>3.1 Write scope of works to include establishment of site, roles and responsibilities, safety, stages, statutory requirements and site hand-over.</p> <p>3.2 Document the system specifications in accordance with manufacturers' requirements.</p> <p>3.3 Document hold points and other quality assurance requirements.</p> <p>3.4 Communicate scope of works and specifications to stakeholders.</p>

FOUNDATION SKILLS

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

**UNIT MAPPING
INFORMATION**

No equivalent unit.

DRAFT

TITLE	Assessment Requirements for CPCCWP5005 Prepare a scope of works for remedial waterproofing.
PERFORMANCE EVIDENCE	<p>A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria and foundation skills, of this unit, in addition to the specific performance and knowledge evidence described below.</p> <p>Prepare and document three (3) scopes of work and specifications for three (3) diagnostic reports provided, chosen from list provided:</p> <ul style="list-style-type: none"> • one investigation and report from an internal wet area which includes a shower • one investigation and report of water ingress through: <ul style="list-style-type: none"> ○ an external wall, adjacent to a waterproofed balcony or deck; OR ○ water ingress below a concrete roof terrace • one investigation and report of water ingress below a waterproofed, lightweight, flat roof structure or balcony • one investigation and report of water ingress to habitable space below ground. <p>In doing so, the scopes of work and specifications must include at least two (2) alternative system specifications for one (1) of the scopes of work.</p> <p>Scope of works must also include:</p> <ul style="list-style-type: none"> • project aims • references to regulatory and Australian Standards requirements • quality assurance requirements • environmental considerations • extent of demolition • roles and responsibilities • sequence of construction stages • hours of work • safety • rubbish removal • availability of services • finishes • re-instatement works • protection works • latent conditions.
KNOWLEDGE EVIDENCE	To be competent in this unit, a candidate must demonstrate knowledge of:

	<ul style="list-style-type: none"> • contributing site factors, including: <ul style="list-style-type: none"> ○ water ingress sources ○ surface water pathways ○ sub-surface water pathways ○ properties of water and moisture movement ○ gradient or falls ○ hydrostatic pressure ○ surface tension of finishes ○ capillarity ○ size and effectiveness of outfalls ○ service and fixing penetrations ○ entry thresholds and openings • building elements and integration, including: <ul style="list-style-type: none"> ○ principles of water capture, direction and shedding ○ relationship between structural components ○ building movement ○ wind loadings ○ construction materials and their properties • inspection and testing protocols utilising factors and influences in accordance with risk levels, including: <ul style="list-style-type: none"> ○ curing times and stages ○ stage inspections or hold points ○ observation procedures ○ establishing control areas and reference points ○ non-destructive investigation procedures ○ destructive investigation procedures ○ utilising information from other sources, e.g., hydraulic and drainage reports, BOM observations • setting control parameters and testing methods, including: <ul style="list-style-type: none"> ○ selection of appropriate test method ○ calibration of testing equipment ○ effects on testing equipment by site conditions and testing procedures • National Construction Code (NCC) performance requirements relevant to areas tested, including: <ul style="list-style-type: none"> ○ waterproofing ○ weather proofing ○ damp proofing ○ condensation management • NCC evidence of suitability in relation to waterproofing system performance, including: <ul style="list-style-type: none"> ○ independent test reports ○ CodeMark Australia ○ other independent testing organisations • Australian Standards and design requirements relevant to areas inspected
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	<ul style="list-style-type: none"> • waterproofing system manufacturers' requirements, including: <ul style="list-style-type: none"> ○ data sheets and specifications ○ installation method statements ○ performance of system according to service conditions ○ suitability of materials as fit for purpose ○ compatibility of components within the system • properties of waterproofing systems available: <ul style="list-style-type: none"> ○ substrate assessment and preparation ○ combining components to form a system ○ component compatibility in a combined system ○ component properties for site conditions ○ component installation practices • system analysis for effectiveness • report content and communication of findings: <ul style="list-style-type: none"> ○ types of diagnostic reports and structures, including: <ul style="list-style-type: none"> ○ issue ○ performance standard ○ remedial action required ○ tables and diagrams ○ photographic evidence ○ thermal imaging analysis ○ interpreting measurement values ○ references to Australian Standards and designs ○ verbal communication strategies ○ different audiences ○ presenting evidence • stakeholders: <ul style="list-style-type: none"> ○ architect ○ engineer ○ builder ○ building owner ○ consumer ○ design team ○ construction team ○ certifier ○ building surveyor ○ regulators.
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ASSESSMENT CONDITIONS	<p>Candidates must have access to:</p> <ul style="list-style-type: none"> ▪ relevant task ▪ Australian Standards, relevant building legislation, industry codes, National Construction Code and requirements of workplace policies and procedures as required by Commonwealth, state and territory regulators ▪ relevant environmental requirements.
LINKS	<p>Link to Companion Volume Implementation Guide will be inserted here.</p>