



# Draft Qualification of Construction Waterproofing & Survey



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# Agenda

- 1 Background
- 2 What is it?
- 3 What is involved?
- 4 When will it come into effect?
- 5 Some useful resources.



# Background

## Waterproofing

One of the big issues being addressed by the Office of the NSW Building Commissioner.

# “Draft Qualification” of Construction Waterproofing Design and Survey

The National Construction Code:

- Class 2 Buildings – containing two or more sole-occupancy units;
- Class 1 Buildings – single dwellings; and
- Class 3 Buildings – residential building providing long-term or transient accommodation, for a number of unrelated persons, including boarding house, hotel, hostel, guest houses and the like.

The “qualification” is to be the equivalent to the Australian Qualifications Framework Level 5 (Diploma Level). There are no entry requirements!

# Why is a “qualification” required?

The Design and Building Practitioners (DPB) Act now requires:

- Regulated designs by a **registered design professional** or an **architect** to be built by a **registered building professional** for:
  - New construction
  - Alterations or additions
  - Repair, renovation or protective treatment.

Relating to Class 2 buildings except for work in a single dwelling (sole occupancy unit).

# What will it cover:

- Conducting waterproofing inspections (“survey”):
  - New construction;
  - On existing buildings to identify issues and remediation requirements;
- Design waterproofing for new construction; and
- Design remedial waterproofing solutions for existing buildings.

# What is involved?

To achieve the qualification, one has to complete 16 units of competency comprising:

- 11 core units and
- 5 electives from two groups
  - Group A – Building Codes (at least one unit)
  - Group B – General Electives

# Core Subjects

- Report on quality audits
- Inspect and assess sites to inform design process
- Select, prepare and administer a construction contract
- Read and interpret plans and specifications
- Prepare simple building sketches and drawings
- Design external above ground waterproofing
- Design waterproofing systems to internal wet areas
- Design below ground waterproofing
- Determine origin of water and moisture ingress into buildings
- Survey waterproofing systems
- Prepare a scope of works for remedial waterproofing



# Group A – Building Code Electives (at least one unit)

- Apply building codes to Class 1 and 10 buildings
- Apply building codes and standards to the construction process for Class 2 to 9 Type C buildings
- Apply building codes and standards to the construction process for large building projects

# Group B – General Electives...

- Manage project quality
- Write complex documents
- Manage organisational customer services
- Assess construction waterproofing processes
- Supervise site communications and administration processes for building and construction projects
- Prepare specifications for all construction works

# Group B – General Electives...continued

- Resolve business disputes
- Arrange building applications and approvals
- Prepare design brief for construction works
- Lead and manage teams in the building and construction industry
- Produce 2D architectural drawings using design software
- Monitor costing systems on complex building and construction projects
- Supervise and apply quality standards to the selection of building and construction materials

# Group B – General Electives...continued

- Manage building and construction business finances
- Develop workplace policies and procedures for sustainability
- Assess and advise on performance solutions for Class 1 and 10 buildings to three storeys
- Assess and advise on performance solutions for Class 2 to 9 buildings to three storeys
- Prepare to work safely in the construction industry
- Apply WHS requirements, policies and procedures in the construction industry

# Course Design

The course has been designed by Artibus Innovation “...a leading, respected skills & knowledge standards house with a national and global reach. Artibus Innovation operates a Skills Service Organisation, funded by the Commonwealth Government to support the construction and property industries to ensure their qualifications and competency standards are up-to-date, future-focused and aligned with industry needs...”

# When will the course start?

When will the course come into effect and how long will it take to complete?

No one knows but, in the meantime, some projects have been put on hold.

# Some useful resources...

- National Construction Code Volumes 1 and 2
- AS 3740-2021 Waterproofing of domestic wet areas
- AS 2047-2014 Windows in buildings - Selection and installation
- AS 4349.1-2007- Inspection of buildings - Part 1 Property inspections - Residential buildings
- AS 4654.1-2012 Waterproofing membranes for external above-ground use Materials
- AS 4654.2-2012 Waterproofing Membrane Systems for External Above-Ground Use - Part 2 Design and Installation

# Some useful resources... continued

- British Standard BS8102 – 2009 Code of practice for protection of below ground structures against water from the ground
- Guide to External Waterproofing Balcony Decks – 2009
- Guide to Internal Wet Area Waterproofing
- Construction Waterproofing Handbook: Second Edition (Amazon \$118.91)
- Roofing Codes
- Industry Technical Literature for roofing and flashings
- Old Textbooks



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