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The below answer sheet is for your own self-assessment.
Please keep your completed questionnaires and answers on file for your record.
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Coastal Architecture - Designing for Salt, Sun & Storm

1. **What percentage of Australians live within 7km of the coast?**

   50 per cent of Australians live within 7km of the coast.

2. **Explain how wind and sand typically damage buildings in coastal environments.**

   When combined, wind and sand degrade building envelopes, weaken structural components, and undermine the foundations of buildings in coastal environments.

3. **How should architects address the challenges associated with moisture, wind and sand damage, and salt-induced corrosion in coastal architecture? Is it about considering each in isolation or is a holistic approach recommended?**

   Architects should use a holistic approach to design coastal architecture. This is because – rather than acting in isolation – moisture, wind, sand, and salt amplify each other. For example, high winds drive salt-laden moisture into a building's joints, accelerating corrosion and rot more quickly than rain or wind would on their own.

4. **What regulations apply to the protection of houses from wind in Australian coastal environments?**

   The National Construction Code (NCC) states that any home built in a coastal zone must be structurally designed to withstand extreme or frequently repeated wind loads and maintain structural integrity under severe pressure. To do so, homes must adhere to AS 4055 and AS/NZS 1170.2.

5. **What are the potential consequences of underestimating a building's exposure to coastal conditions?**

   Underestimating a building's exposure to coastal conditions can lead to structural failure, financial loss, and safety hazards.

Competency Codes: PC12, PC16, PC24, PC28