



Australian Government

CPPBDN5109 Recommend sustainability solutions for small-scale building design projects

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 11.0.

Supersedes and is equivalent to CPPBDN5005A Recommend sustainability solutions for small-scale building design projects. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to research global best practice and legislative requirements for environmental sustainability of building designs to a maximum floor area of 2000m², except construction Type A buildings. It includes reviewing site conditions, evaluating sustainability options, and recommending cost-effective options for sustainability that meet compliance requirements and client preferences.

This unit is suitable for drafters and building designers who apply integrated technical, theoretical and communication skills to develop sustainable designs that meet compliance and client requirements.

Building classifications and construction types are set out in the National Construction Code (NCC).

This unit forms part of the licensing requirements for people engaged in building design in some states and territories. For further information, check with the relevant regulatory authority.

Pre-requisite Unit

Nil.

Unit Sector

Building design

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

1 Research trends in sustainable building

1.1 Analyse current legislation relating to sustainable design requirements for new small-scale building design

design.	projects.
	1.2 Identify potential effects of incoming legislation relating to sustainable design requirements on building design projects.
	1.3 Analyse global trends in sustainable design for new buildings.
	1.4 Identify and analyse use of locally produced components and materials in sustainable design.
	1.5 Identify appropriate sustainable construction methods for building design project.
2 Assess client sustainability requirements, preferences and budget.	2.1 Explain compulsory requirements and trends in sustainable design to client for building design project.
	2.2 Clarify project budgetary constraints on sustainable design preferences.
3 Evaluate and recommend design options for sustainability.	3.1 Research and evaluate sustainable design options specific to project location and site conditions.
	3.2 Research and evaluate sustainable design options relevant to building design project.
	3.3 Assess sustainable design options against client preferences and budget and recommend cost-effective solutions.
	3.4 Discuss and clarify client preferences for sustainable design solutions against best practice and legislative requirements.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- reading skills to interpret and apply complex information in legislation, regulations, codes of practice and standards.

Unit Mapping Information

Supersedes and is equivalent to CPPBDN5005A Recommend sustainability solutions for small-scale building design projects.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPBDN5109 Recommend sustainability solutions for small-scale building design projects

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- analysing sustainable design options for two different building design projects, one residential and one commercial
- recommending sustainable solutions based on research findings to two clients in order to finalise building design.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- basic principles of building structures and construction
- duty of care of building designers to ensure quality and safety of designs
- construction materials and methods used in sustainable design suited to different climates
- National Construction Code (NCC) building classifications and construction
- principles of sustainable design
- legislation, codes and standards relevant to sustainable design requirements for small-scale building design projects
- potential and trending environmental legislation
- sources of reliable information on:
 - current and incoming legislation
 - local and global trends in sustainable design
 - sustainable building materials and methods.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations. Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed. This includes access to:

- computer with internet access and word processing software
- relevant legislation, regulations, codes and standards
- client and project information.

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