



Australian Government

Assessment Requirements for CPCCBBC4020 Build thermally efficient and sustainable structures

Release: 3

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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.
Element 1.2 changed to allow for continuing compliance with NCC.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCBC4020A Build thermally efficient and sustainable structures. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by effectively applying mechanical services principles and concepts to the construction of a thermally efficient and sustainable building structure.

In doing this, the candidate must:

- sourcing and analysing legislative and planning requirements for thermal efficiency in the building process
- calculating costs and savings of implementing alternative thermally efficient systems
- applying principles of thermal efficiency to planning of a building project
- producing work plans that reflect effective thermal efficiency.

Knowledge Evidence

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

- building and construction industry processes for building sustainability
- requirements for building thermally efficient structures:
 - appropriate use of thermal mass (noting impact of climatic conditions)
 - glazing size and orientation
 - insulation
 - orientation of building
 - use of relevant construction methods
- regional climate differences areas:

- cooling climates
- hot arid climates
- hot humid climates
- mixed climates
- relevant state or territory building and construction codes, standards and government regulations
- underlying mathematics related to the calculation of thermal efficiency
- workplace safety requirements.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment can be undertaken in the workplace or in a simulated workplace environment.

A simulated environment is one that realistically replicates workplace conditions, materials and equipment, interactions with others and workplace irregularities, and which meets industry standards for safety and environmental practices.

Candidates must be provided with:

- relevant government building and construction regulations
- current building and construction codes and standards
- the NCC
- construction plans, site plans and specifications
- policies and procedures
- environmental, sustainability and other quality documentation to undertake the performance criteria and evidence requirements
- digital technology devices, applications and software to source and document information.

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>