



Australian Government

**CPCSUS5002 Develop action plans to
retrofit existing buildings for energy
efficiency**

Release: 1

CPCSUS5002 Develop action plans to retrofit existing buildings for energy efficiency

Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and equivalent to CPCSUS5002A Develop action plans to retrofit existing buildings for energy efficiency. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to develop plans to improve the energy efficiency of an existing building. It includes researching appropriate products, materials and systems and engaging with clients and stakeholders when retrofitting a building.

The unit of competency applies to building designers, tradespeople and building project managers involved in the design or development of retrofits for energy efficiency.

This unit of competency applies to those who apply skills and knowledge to identify, analyse and evaluate approaches to sometimes unpredictable problems.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Sustainability

Elements and Performance Criteria

Elements describe the essential outcomes.

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

- 1 Plan retrofit processes.
 - 1.1 Discuss client's use of the building and specific expectations of energy efficient retrofit priorities and incorporate into planning.
 - 1.2 Initiate energy assessment or review report from a prior assessment and discuss with key stakeholders to determine energy conservation measures.
 - 1.3 Provide a client with an overview of recommended processes and information relevant to generating an energy efficient retrofit.

- 2 Evaluate opportunities to improve energy conservation and efficiency of an existing building.
 - 2.1 Review and evaluate recommendations from energy efficiency assessor for input into the retrofit action plan.
 - 2.2 Identify limitations and obstacles involved in the energy efficiency upgrade of a building and develop appropriate solutions.
 - 2.3 Identify and manage risks of retrofitting an existing building for improved energy efficiency, including possible installation of mechanical ventilation systems.
 - 2.4 Develop and cost strategies that provide a measurable increase in the operational energy efficiency of an existing building.
 - 2.5 Assess structural adequacy of the existing building to determine appropriateness of retrofit solutions for energy efficiency.

- 3 Research and select energy efficient materials, products and systems.
 - 3.1 Research materials, products and systems specifications for appropriateness to the energy efficiency for the existing building.
 - 3.2 Source literature and consult with manufacturer representatives to identify installation and operational specifications.
 - 3.3 Check compliance requirements for selecting and installing materials, products and systems.
 - 3.4 Assess thermal and acoustic insulation of the building to determine energy efficiency rating.

- 3.5 Determine quality of insulation and installation to improve insulating properties of the building.
- 4 Finalise a retrofit action plan.
 - 4.1 Develop final a retrofit action plan to comply with organisational procedures.
 - 4.2 Explain projected benefits of undertaking each of the proposed retrofit measures to a client.
 - 4.3 Obtain client sign-off and finalise documentation of the agreed plan.

Foundation Skills

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

- numeracy skills to:
 - calculate areas, volume and mass to determine dimensions and plan design
 - convert data into measurable and comparable information
- problem-solving skills to:
 - recognise and overcome design and structural construction problems
- technology skills to:
 - use communication tools and devices to communicate and collaborate effectively with others
 - use equipment and programs to access and extract information and develop relevant documentation.

Unit Mapping Information

Supersedes and is equivalent to CPCSUS5002A Develop action plans to retrofit existing buildings for energy efficiency.

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>