Draft 0.1

This is our work-in-progress update to CPCCBC5012A Manage the application and monitoring of energy conservation and management practices and processes: https://training.gov.au/Training/Details/CPCCBC5012A.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here: http://www.artibus.com.au/project-stage.

Summary of changes from current endorsed unit

Re-templated to meet Standards for Training Packages 2012.

Sequenced Elements and Performance Criteria.

Specified what and how performance is demonstrated in Performance Evidence.

Captured critical Range Statement items and included industry relevant knowledge in Knowledge Evidence.

Stated mandatory conditions and specific requirements for assessment.

CPCCBC5012
Manage the application and monitoring of energy conservation and management practices and processes

Application

This unit of competency specifies the skills and knowledge required to monitor energy conservation and manage practices and processes within the building and construction industry. It also includes applying energy practices and methodologies, statistical analysis, current trends and factors in energy conservation, and legislative and regulatory requirements.

This unit applies to builders, senior managers within building and construction firms and other industry professionals responsible for determining and recording the effectiveness and efficiency of energy conservation to meet organisational targets.

Prerequisite Unit

Nil.

Unit Sector

Construction.

Elements and Performance Criteria

1. Prepare organisation energy conservation and management plan.	1.1	Review organisational policy and operational guidelines for energy conservation and management.
	1.2	Analyse the potential impact on the organisation of current shifts in environmental legislation or regulations.
	1.3	Use best practice and benchmarking methods to determine current energy conservation and management performance.
	1.4	Identify opportunities for energy conservation and savings within the immediate work area and on project sites.
	1.5	Ask staff and contractors for ideas and suggestions concerning organisational energy conservation.
	1.6	Prepare energy conservation and management plan based on available information.
	1.7	Seek advice from senior management, as required, concerning implementation of the plan.
	1.8	Develop an environmental management plan.
2. Manage the energy conservation plan.	2.1	Inform staff and contractors of their compliance obligations in implementing and monitoring the energy conservation and management plan.
	2.2	Manage the energy data-gathering systems for maximum efficiency and accuracy and make changes as necessary.

	2.3	Determine their impact of new projects on existing energy conservation planning.
	2.4	Encourage contractor participation to achieve the plan's objectives.
	2.5	Identify difficulties, obstructions or factors that impact on the achievement of the energy conservation plan and take measures to address them.
	2.6	Communicate information concerning updates to the plan to staff and stakeholders.
	2.7	Evaluate strategies to ensure that organisational objectives are achieved.
3. Monitor the energy conservation plan.	3.1	Use organisational feedback systems to assist with compliance and management of the plan.
	3.2	Obtain regular feedback of the efficiency and operations of the energy conservation and management plan from staff and contractors.
	3.3	Identify and promote energy savings throughout the organisation.
	3.4	Implement strategies to assist with compliance of the energy management plan regarding reported energy wastage.
4. Evaluate and recommend changes to the energy conservation and management plan.	4.1	Review and action identified areas of improvement to maintain compliance with plan.
	4.2	Introduce measures to encourage staff to suggest more efficient procedures and innovations to improve the performance of the energy conservation and management plan.
	4.3	Redraft plans to include improvements or address deficiencies identified during monitoring.
	4.4	Amend and submit revised plans to senior management for approval.

Foundation Skills

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

- technology skills to:
  - use communication tools and devices to communicate and collaborate effectively with others
  - use equipment and programs to access, extract information and develop relevant documentation

Unit Mapping Information

Supersedes and equivalent to CPCCBC5012A Manage the application and monitoring of energy conservation and management practices and processes.

Links

Companion Volume Implementation Guide: to be added.

Assessment Requirements for CPCCBC5012 Manage the application and monitoring of energy conservation and management practices and processes

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by developing effective energy conservation and management action plans and strategies for a medium rise building and construction project.

In doing this, the candidate must:

- research current trends in energy conservation and management
- assess the extent of advice, feedback and information provided to the organisation
- monitor and record effectiveness, efficiency and compliance the organisation's standards
- conform to relevant environmental and sustainability legislation, regulations and requirements.

Knowledge Evidence

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

- environmental and sustainability requirements
- development, application and monitoring of energy conservation plans:
    - gathering and evaluating formal or informal information and data
    - research current energy conservation trends and factors
    - energy management practices and methodologies
    - conformance, milestones and performance targets
- energy data-gathering systems:
    - reports from suppliers
    - scheduled management meetings and briefings
    - statistical and analytical data supporting energy objectives
    - feedback from authorities
    - spot checks on aspects of energy management process
- benchmarking and best practice:
    - comparison of current, previously established and external energy conservation and management plans
    - costs associated with optimum environmental conformance
    - performance indicators against energy management objectives
    - performance measuring against industry, local authority, regulatory or world standards
    - energy targets, electrical power usage, fuel usage, heat loss and thermal efficiency
    - statistics of measurements from start, ongoing and at conclusion

- organisational policies and practices supporting energy conservation and management

Assessment Conditions

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

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment.

Candidates must be provided with:

- national, state and territory environmental and sustainability legislation and requirements
- state and territory building legislation, codes and standards
- organisational quality documentation
- sufficient materials and equipment to facilitate management, application and management of energy conservation plan for a building and construction project.

Links

Companion Volume Implementation Guide: to be added.