



Australian Government

CPCCBBC5012 Manage the application and monitoring of energy conservation and management practices and processes

Release: 2

CPCBC5012 Manage the application and monitoring of energy conservation and management practices and processes

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCBC5012A Manage the application and monitoring of energy conservation and management practices and processes. Updated to meet the Standards for Training Packages 2012.

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 includes applying energy practices and methodologies, statistical analysis, current trends and factors in energy conservation, and legislative and regulatory requirements.

This unit of competency 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.

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 *CPCWHS1001 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

Building and Construction

Elements and Performance Criteria

Elements describe the essential outcomes.

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

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| 1 Prepare the organisation energy conservation and management plan. | 1.1 | Review organisational policies 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 | Consult with staff and contractors for ideas and suggestions concerning organisational energy conservation. |
| | 1.6 | Prepare an 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. |
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| 2 Manage the energy conservation plan. | 2.1 | Inform staff and contractors of their obligations in implementing 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 the impact of new projects on existing energy conservation planning. |
| | 2.4 | Encourage staff and contractor participation to achieve the plan's objectives and monitor their compliance. |
| | 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 of the plan to staff and stakeholders. |
| | 2.7 | Evaluate strategies to ensure that organisational |

objectives are achieved.

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| 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 on 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:

- analytical skills to:
 - assess variations in energy management performance and identify reasons for variations
- communication skills to:
 - enable clear and direct communication of environmental management plan requirements, and seek feedback on improvement initiatives
- 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 CPCBC5012A Manage the application and monitoring of energy conservation and management practices and processes.

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>

Assessment Requirements for CPCBC5012 Manage the application and monitoring of energy conservation and management practices and processes

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Performance Evidence

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

In doing this, the candidate must:

- research current trends in energy conservation and management
- monitor and record effectiveness, efficiency and compliance of the organisation's standards and identify areas for improvement
- 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
 - researching 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 international 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 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 have access to:

- environmental legislation, regulations and local jurisdictional requirements
- government building legislation
- organisational energy data and costs and product manufactures energy specifications
- building and environmental codes and standards
- business equipment and technology, applications and software to facilitate effective management of environmental practices and processes in building and construction.

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