



**Australian Government**

# **UEERE0066 Develop effective engineering strategies for energy reduction in buildings**

**Release: 1**

# **UEERE0066 Develop effective engineering strategies for energy reduction in buildings**

## **Modification History**

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

This unit replaces and is not equivalent to UEERE0012 Develop effective engineering strategies for energy reduction in buildings. Modifications include:

- Prerequisite removed
- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Updates to performance and knowledge evidence requirements and CVIG content developed.

## **Application**

This unit involves the skills and knowledge required to develop effective engineering strategies for energy reduction in buildings.

It includes developing and documenting engineering strategies/methods to effectively reduce energy use in buildings. It also includes documenting and reporting engineering strategies for energy reduction in buildings.

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

## **Pre-requisite Unit**

Not applicable

## **Competency Field**

Renewable Energy

## **Unit Sector**

Electrotechnology

## **Elements and Performance Criteria**

### **ELEMENTS**

### **PERFORMANCE CRITERIA**

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

**1 Identify engineering energy strategies for a building**

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures are identified and applied
- 1.2** Scope of engineering evaluation is determined from specifications of building, services, plant and machinery and in consultation with relevant person/s
- 1.3** Advice is sought from work supervisor to ensure work is coordinated effectively with relevant person/s
- 1.4** Tools, testing devices and materials needed to carry out work are obtained and checked for correct operation and safety
- 1.5** Industry regulations, legal obligations and job requirements are identified and applied to work in accordance with workplace procedures

**2 Develop engineering strategies for energy reduction in a building**

- 2.1** Inspection, tests and measurements are carried out in accordance with WHS/OHS requirements and workplace procedures
- 2.2** Energy use of building, services, plant and machinery is obtained and applied to the engineering evaluation process
- 2.3** Energy evaluation tests are set up in accordance with inspection and test methods and workplace procedures
- 2.4** Engineering strategies to reduce energy use without compromising occupancy standards are developed in accordance with energy management techniques and evaluation test results
- 2.5** Engineering evaluation is carried out without damage to systems, circuits, the surrounding environment or services using sustainable energy practices
- 2.6** Worksite is cleaned and made safe in accordance with workplace procedures
- 2.7** Results of energy use evaluation and recommended engineering strategies and their criterion for energy reduction are documented in accordance with workplace procedures

- 2.8** Engineering energy reduction report is completed and forwarded to relevant person/s

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Developing engineering strategies for effective energy reduction must include at least the following:

- two different buildings.

## Unit Mapping Information

This unit replaces and is not equivalent to UEERE0012 Develop effective engineering strategies for energy reduction in buildings.

## Links

Companion Volume Implementation Guides are found in VETNet -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>