



Australian Government

UEERE0005 Assess energy loads and uses for energy efficiency in residential, office and retail premises

Release: 1

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Modification History

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

Application

This unit involves the skills and knowledge required to undertake energy audits to assess energy loads of residential, office and retail premises; evaluate the energy efficiency of the premises and to make recommendations on design implementations.

It includes working safely, applying extensive knowledge of electrical installations and components and their operating parameters, gathering and analysing data, applying problem-solving techniques, and developing and documenting engineering solutions.

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

Pre-requisite Unit

UEERE0014 Develop strategies to address sustainability issues for electrical installations

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

| PERFORMANCE CRITERIA | |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1 Prepare to assess residential, office and retail premises for energy efficiency | 1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace processes and procedures for relevant work area are identified and applied |

evaluation

- | | | |
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| | 1.2 | Hazards are assessed, risks are assessed and control measures implemented |
| | 1.3 | Extent of the energy assessment is determined from analysis of premises, including orientation and floor plans, building structure plans, energy accounts and situation reports in consultation with relevant person/s and in accordance with workplace procedures |
| | 1.4 | Energy assessment activities are planned to meet scheduled timelines in consultation with others involved in the work |
| | 1.5 | Strategies are determined to ensure energy efficient solutions are developed and implementation is carried out in accordance with workplace procedures |
| 2 | Assess residential, office and retail premises for energy efficiency evaluation | <p>2.1 WHS/OHS risk control work measures and procedures are followed</p> <p>2.2 Energy loads are considered when developing energy efficient strategies to address and minimise energy use</p> <p>2.3 Parameters, specifications and performance requirements in relation to energy use are set in accordance with workplace procedures</p> <p>2.4 Approaches to resolving/minimising sustainability issues and energy use are analysed to provide the most effective solutions in accordance with workplace procedures</p> <p>2.5 Unplanned events are dealt with safely, efficiently and consistently in accordance with regulatory requirements and workplace procedures</p> <p>2.6 Quality and energy efficiency of the audit is monitored against performance agreement and/or workplace procedures and industry standards</p> |
| 3 | Document assessment of residential, office and retail premises for energy efficiency | 3.1 Proposed solutions/strategies to minimise energy use are tested to determine their effectiveness and modified, as required, in accordance with workplace procedures |

- 3.2 Adopted solutions are documented in accordance with workplace procedures, including instructions for implementation that incorporate the risk control measures to be followed
- 3.3 Authorised person/s required to implement solutions for energy use is coordinated in accordance with regulatory requirements and workplace procedures
- 3.4 Justification for strategies used to minimise energy use is documented for inclusion in work/project development records in accordance with professional industry standards and workplace procedures

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.

Carrying out energy assessments and documenting energy efficiency strategies must include at least the following:

- two residential, office and retail premises

Unit Mapping Information

This unit replaces and is equivalent to UEENEEK153A Assess energy loads and uses for energy efficiency in residential, office and retail premises.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>