



Australian Government

UEEEL0035 Design effective and efficient lighting for public, open and sports areas

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 design effective and efficient lighting for public, open and sports areas.

It includes designing lighting for public, open areas, and indoor and outdoor sporting facilities and/or urban parks. It also includes adhering to compliance standards, energy management, lighting control and available lighting products appropriate to the design; and documenting completed design for approval

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

Pre-requisite Unit

UEEEL0063 Provide photometric data for illumination system design

UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs

Competency Field

Electrical

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to design lighting for public, open

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) processes and workplace procedures for a

- and sports areas** given work area are identified, obtained and applied
- 1.2 Scope of the lighting requirement is identified from design brief
 - 1.3 Safety and relevant conditions to the lighting design are identified, obtained and applied in accordance with relevant industry standards
 - 1.4 Design development work is planned in consultation with relevant person/s involved in accordance with scheduled timelines
- 2 Develop lighting design**
- 2.1 Relevant performance standards, compliance methods and lighting equipment is applied to lighting design in accordance with relevant industry standards
 - 2.2 Alternative lighting designs are reviewed in accordance with the design brief
 - 2.3 Safety, functionality, maintenance and budgetary considerations are incorporated in lighting design
 - 2.4 Lighting design draft is checked in accordance with design brief and relevant industry standards
 - 2.5 Lighting design is documented for submission to relevant person/s for acceptance and approval
 - 2.6 Unplanned situations are dealt with in accordance with workplace procedure
- 3 Obtain approval for lighting design**
- 3.1 Lighting design is documented and presented to client representative and/or relevant person/s
 - 3.2 Requests for alterations to the design are negotiated with relevant person/s in accordance with workplace procedures
 - 3.3 Final design is documented and approval obtained from relevant person/s
 - 3.4 Quality of work is monitored in accordance with workplace procedures and relevant industry standards

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.

Designing lighting for public and open areas must include at least two of the following:

- flood lighting of tennis courts
- flood lighting of netball or basketball courts
- flood lighting of football grounds
- lighting of squash courts
- lighting of indoor or outdoor bowling greens
- swimming pool lighting
- sporting spectator lighting
- other sporting applications
- stair lighting/passageway lighting
- park lighting
- mall lighting
- car park lighting

Unit Mapping Information

This unit replaces and is equivalent to UEENEEG187A Design effective and efficient lighting for public, open and sports areas.

Links

Companion Volume implementation guides are found in VETNet - -

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