



**Australian Government**

**UEEEL0036 Design effective and efficient  
lighting for residential and commercial  
buildings**

**Release: 1**

# UEEEL0036 Design effective and efficient lighting for residential and commercial buildings

## 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 residential and commercial buildings.

It includes preparing and developing lighting design for residential and commercial buildings, and obtaining approval of the design.

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**

### 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 procedures for a given work area are identified, obtained and applied**

- 1.2** Scope, extent and nature of the lighting work requirements are determined from design brief
  - 1.3** Safety and regulatory requirements for the lighting design are identified, obtained and applied in accordance with relevant industry standards
  - 1.4** Work is planned to meet scheduled timelines in consultation with others involved in the lighting installation or associated work
- 2 Develop lighting design**
  - 2.1** Lighting performance and equipment design is applied in accordance with relevant industry standards
  - 2.2** Alternative lighting design/s is considered based on the requirements outlined in the design brief
  - 2.3** Safety, functional and budgetary considerations are incorporated in the lighting design
  - 2.4** Lighting design draft is checked in accordance with relevant industry standards and design brief requirements
  - 2.5** Lighting design is documented for submission to appropriate person/s for acceptance and approval
  - 2.6** Solutions to unplanned events are identified in accordance with workplace procedures
- 3 Obtain approval for lighting design**
  - 3.1** Lighting design is presented and explained 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 lighting design is documented and approval obtained from appropriate person/s in accordance with workplace procedures
  - 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.

Lighting design must be demonstrated in at least three of the following:

- large residential lighting design
- indoor area shop lighting
- stairway or stairwell lighting
- flood lighting
- amenities lighting
- lighting for specific commercial processes and tasks
- lighting for ambient and aesthetic effect
- display lighting
- security lighting

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEG186A Design effective and efficient lighting for residential and commercial buildings.

## Links

Companion Volume implementation guides are found in VETNet - -

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