



Australian Government

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

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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- determining the extent and nature of the lighting requirements from a design brief
- identifying and understanding safety and other requirements to which the lighting design shall comply
- planning to meet scheduled timelines
- applying appropriate knowledge of lighting performance compliance and lighting equipment in designing the lighting
- considering alternative arrangements for the lighting design
- documenting and presenting the lighting design
- responding appropriately to requests to alter the design
- documenting and obtaining approval of the lighting design
- dealing appropriately with unplanned events
- applying relevant industry standards
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- applying sustainable energy practices
- following quality and workplace procedures
- developing lighting design, including:
 - using lighting equipment
- updating work documents.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- lighting design, including:
 - lighting principles
 - lighting applications

- safety aspects of lighting
- energy efficiency
- integrating various lighting types into one application
- control and energy management
- interpreting and applying manufacturers' technical data
- architectural considerations
- utilising natural lighting
- use of computer programs for lighting design
- safety, functional, maintenance and budgetary factors in the lighting design
- problem-solving techniques
- relevant industry standards
- relevant manufacturer specifications and operating instructions
- relevant quality workplace procedures
- relevant job safety assessments or risk mitigation processes
- relevant sustainable energy practices
- relevant tools, equipment, resources and materials
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, relevant industry standards, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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