



Australian Government

UETDRDS025 Draft and layout street lighting system

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 4.0.

Application

This unit includes the skills and knowledge required to draft and layout a street lighting system in the electricity supply industry (ESI).

It includes factors affecting external lighting design, calculation of light output and illuminance, and special lighting situations.

It also includes use of manuals and diagrams, and the fundamentals of surveying and computer-aided drafting.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEEEL0020 Solve problems in low voltage a.c. circuits

UEEEL0021 Solve problems in magnetic and electromagnetic devices

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Design

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare to draft and layout street lighting system

- 1.1 Project requirements are determined
- 1.2 Draft and layout specifications are determined in accordance with workplace requirements
- 1.3 Tools, equipment and personal protective equipment (PPE) required for site inspections are determined, obtained and confirmed in working order
- 1.4 Requirements for site inspections are determined in accordance with workplace requirements
- 1.5 Work is prioritised and sequenced for completion in accordance with workplace requirements

2 Draft and layout street lighting system

- 2.1 Site inspection is performed
- 2.2 Street lighting system is drafted and laid out in accordance with workplace requirements
- 2.3 Sustainable energy principles are used to evaluate and determine best outcomes in accordance with workplace requirements
- 2.4 Environmental sustainability principles are used to evaluate and determine best outcomes in accordance with workplace requirements
- 2.5 Draft and layout are checked for compliance against legislation, regulations, standards and codes of practice
- 2.6 Health and safety risks are identified and minimised or eliminated by using safety and control measures in the design process
- 2.7 Quality checks of work are undertaken in accordance with workplace requirements

3 Complete work and documentation

- 3.1 Completed work is checked against customer and workplace requirements

- 3.2 Work records, reports and documentation are completed, approved and appropriate personnel notified in accordance with workplace requirements

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 UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is not equivalent to UETDRDS010 Draft and layout a power system street lighting system.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>