



Australian Government

UETDRDU007 Install and maintain underground public lighting

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 2.0.

Application

This unit involves the skills and knowledge required to install and maintain underground public lighting in the electricity supply industry (ESI).

It includes installing poles/columns, hardware, underground cable and control equipment.

It also includes testing and commissioning, inspecting and maintaining public lighting.

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

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

UETDREL001 Apply environmental requirements

UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Distribution Underground

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to install and maintain underground public lighting

PERFORMANCE CRITERIA

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

- 1.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are referred to and confirmed
- 1.2** Work plan is obtained and confirmed in accordance with workplace requirements
- 1.3** Materials required for work are determined and obtained in accordance with work plan and workplace requirements
- 1.4** Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.5** Hazards are identified, risks assessed and control measures identified and applied
- 1.6** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.7** Work permits are received and signed in accordance with workplace requirements
- 1.8** Worksite is prepared in accordance with the work plan and workplace requirements
- 1.9** Safety observer role and responsibilities are discussed and confirmed in accordance with workplace requirements
- 1.10** Communication method between the workers and safety observer is determined and confirmed in accordance with workplace requirements
- 1.11** Traffic management plan is confirmed as being in place in accordance with workplace requirements

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| 2 Carry out installation of underground public lighting | <ul style="list-style-type: none">2.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored2.2 Lifting, working at heights, the use of plant, tools, equipment and PPE are carried out in accordance with workplace requirements2.3 Hazard control measures are monitored in accordance with workplace requirements2.4 Safety observer is positioned to observe the work in accordance with workplace requirements2.5 Communication methods between workers and safety observer are used in accordance with workplace requirements2.6 Excavation/foundation is inspected for compliance with the work plan and workplace requirements2.7 Pole/column, hardware and control equipment is assembled in accordance with the work plan and workplace requirements2.8 Pole/column is erected and stabilised in accordance with the work plan and workplace requirements2.9 Earthing is installed in accordance with the work plan and workplace requirements2.10 Cable is laid and connected at the pole/column connection point and at the pillar2.11 Public lighting is tested and commissioned in accordance with the work plan and workplace requirements2.12 Incidents or unplanned events are responded to in accordance with workplace requirements2.13 Quality checks of work are undertaken in accordance with work plan and workplace requirements |
| 3 Carry out maintenance of underground public lighting | <ul style="list-style-type: none">3.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored3.2 Lifting, working at heights, and the use of plant, tools, equipment and PPE are carried out in accordance with |

workplace requirements

3.3 Hazard control measures are monitored in accordance with workplace requirements

3.4 Safety observer is positioned to observe the work in accordance with workplace requirements

3.5 Communication methods between workers and safety observer are used in accordance with workplace requirements

3.6 Public lighting is inspected in accordance with workplace requirements

3.7 Public lighting is maintained in accordance with the work plan and workplace requirements

3.8 Incidents or unplanned events are responded to in accordance with workplace requirements

3.9 Quality checks of work are undertaken in accordance with work plan and workplace requirements

4 Complete work and documentation

4.1 Completed work is checked for compliance against the work plan and workplace requirements

4.2 Incidents or unplanned events are reported in accordance with workplace requirements

4.3 Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements

4.4 Surplus materials are returned to storage or disposed of in accordance with workplace requirements

4.5 Plant, tools and equipment are cleaned, checked and returned to storage in accordance with workplace requirements

4.6 Work permits are signed off in accordance with workplace requirements

4.7 Work records, reports and documentation are completed 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 is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

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