



Australian Government

Assessment Requirements for UETDRDU007 Install and maintain underground public lighting

Release: 1

Assessment Requirements for UETDRDU007 Install and maintain underground public lighting

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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - work health and safety (WHS)/occupational health and safety (OHS)
 - safe approach distances
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- determining communication method with safety observer
- confirming safety observer is in position in accordance with workplace requirements
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- installing public lighting, including:
 - poles/columns
 - cable
 - lanterns/luminaires
 - outreach arms
 - fuses
 - control equipment
- replacing public lighting poles/columns
- maintaining public lighting hardware, including replacing any three (3) of the following:
 - luminaires
 - lamps
 - fuses
 - cable
 - control equipment
- identifying/diagnosing public lighting faults
- rectifying public lighting faults
- conducting at least three (3) of the following tests:

- polarity*
- voltage
- continuity
- insulation resistance
- neutral identification
- loop impedance
- earth resistance
- (*must do)
- dealing with an unplanned event on at least one (1) occasion
- completing relevant work records, reports and documentation.

Knowledge Evidence

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

- legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - WHS/OHS
 - safe approach distances
 - installation and maintenance of public lighting
 - inspection, testing and commissioning of public lighting
 - live low voltage (LV) connection principles
- hazard, risk assessment and risk control requirements including potential hazards
- types and application of PPE
- safe use of plant, tools and equipment
- application, purpose and types of permits
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- safety observer:
 - role and responsibilities
 - communication methods
- construction manuals, system diagrams/plans and drawings for public lighting
- basic lighting principles
- types and function of poles/columns and outreach arms
- types, function and operation of luminaires/lamps
- types, function and operation of control equipment
- controlling and switching of public lighting
- maintenance of public lighting, including:
 - types of faults and causes
 - repairing and replacing poles/columns, hardware and control equipment

- cleaning hardware.

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 workplace operational situations, where it is appropriate to do so.

Where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational 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:

- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry for installing and maintaining underground public lighting.
- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

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