



Australian Government

**Assessment Requirements for
UETDRRC003 Install and maintain public
lighting systems in a very remote
community**

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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.

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)
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- verifying public lighting system has been isolated and earthed/short circuited in accordance with work plan and workplace requirements
- installing and maintaining public lighting systems on poles or columns, including at least one (1) of the following:
 - wood
 - concrete
 - steel
 - composite
- installing lanterns/luminaires, including at least two (2) of the following:
 - high pressure mercury vapour
 - low pressure and high-pressure sodium vapour
 - fluorescent
 - quartz-halogen
 - light-emitting diode (LED)
- restoring supply to public lighting system in accordance with workplace requirements
- testing public lighting system connections, including all the following:
 - continuity test
 - voltage test
 - neutral loop impedance
 - insulation resistance

- undertaking maintenance of public lighting lanterns/luminaires, including at least two (2) of the following:
 - removing
 - repairing
 - replacing
 - cleaning
- working from at least one (1) of the following:
 - elevated work platform (EWP)
 - platform
 - ladder
- 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
- 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 work permits
- types of lighting systems for overhead and underground, including:
 - wood, concrete, steel and composite poles
 - public lighting brackets
 - associated hardware
- safety precautions specific to working on public lighting, including:
 - safe working practices and procedures
 - working at heights
 - permit to work systems
 - isolation procedures
- basic public lighting principles, including:
 - electromagnetic spectrum
 - principles of colour
 - behaviour of light
 - factors that affect illumination
- requirements for the use of workplace construction manuals, systems, diagrams, plans and drawings, including:

- public light construction
- public lighting circuits
- earthing systems
- types of tools, equipment and specialised testing equipment
- types and function of lanterns/luminaries/lamps and control equipment, including:
 - high-pressure mercury vapour
 - low pressure and high-pressure sodium vapour
 - fluorescent
 - quartz-halogen
 - choke boxes
 - photo-electric cells
 - time switches
 - contactor boxes
 - LED
- techniques for the installation of public lighting systems
- techniques for the inspection, testing and commissioning of public lighting systems, including:
 - pre-energisation tests, including continuity and insulation resistance
 - use of specialist testing equipment
 - neutral and phase identification
 - neutral integrity
 - testing and commissioning forms and documentation
- application of specialist testing equipment, including:
 - voltage detectors
 - insulation resistance testers
 - clamp-on ammeters
 - continuity testers
 - fault indicators
- techniques for the maintenance of public lighting systems, including:
 - diagnosing faults
 - removal, repair, replacement and cleaning of public lighting and hardware
 - controlling and switching of public lighting systems
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident.

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 for installing and maintaining public lighting systems in a very remote community
- 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>