



Australian Government

UETDRAI001 Inspect and test poles at and below ground level

Release: 1

UETDRAI001 Inspect and test poles at and below ground level

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 inspect and test poles at and below ground level in the electricity supply industry (ESI).

It includes testing poles using invasive or non-invasive methods utilising plant, asset inspection tools and equipment. It also includes analysing and recording testing results.

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 and

UETDREL002 Comply with environmental requirements

UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker or

UETDREL001 Apply environmental requirements

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Asset Inspection

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare to inspect and test pole

- 1.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for work to be performed are referred to and confirmed
- 1.2 Work plan is obtained and confirmed in accordance with workplace requirements
- 1.3 Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.4 Hazards are identified, risks assessed and control measures identified and applied
- 1.5 Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.6 Liaison and communication with stakeholders is carried out in accordance with workplace requirements
- 1.7 Work permit/approval is organised in accordance with workplace requirements
- 1.8 Worksite is prepared in accordance with the work plan and workplace requirements
- 1.9 Traffic management plan is confirmed as being in place in accordance with workplace requirements

2 Carry out inspection and testing of pole

- 2.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2 Lifting, the use of plant, tools, equipment and PPE are carried out in accordance with workplace requirements
- 2.3 Hazard control measures are monitored in accordance with workplace requirements
- 2.4 Pole is visually inspected at and below ground level in accordance with the work plan and workplace requirements

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| | 2.5 | Test equipment is set up and used in accordance with manufacturer's instructions and workplace requirements |
| | 2.6 | Test results are analysed and recorded in accordance with workplace requirements |
| | 2.7 | Pole is labelled or marked to indicate its condition in accordance with workplace requirements |
| | 2.8 | Incidents or unplanned events are responded to in accordance with workplace requirements |
| 3 Complete work and documentation | 3.1 | Completed work is checked for compliance against the work plan and workplace requirements |
| | 3.2 | Incidents or unplanned events are reported in accordance with workplace requirements |
| | 3.3 | Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements |
| | 3.4 | Plant, tools and equipment are cleaned, checked and returned to storage in accordance with workplace requirements |
| | 3.5 | Work permits are signed off, if applicable, in accordance with workplace requirements |
| | 3.6 | Work records, reports and documentation are completed, 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 UETTDREL18 Inspect and treat poles and inspect electrical apparatus.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for UETDRAI001 Inspect and test poles at and below ground level

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)
 - manual handling
 - hazardous materials/substances
 - safe approach distances
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- using plant, tools and equipment safely
- visually inspecting poles
- testing poles using at least two (2) of the following methods:
 - sounding
 - drilling
 - resistance
 - ultrasonic/acoustic
 - radiography
 - stress wave
 - dynamic (vibration)
 - mechanical
 - electromagnetic field
- using software applications or workplace documents for:
 - accessing and verifying existing data
 - capturing or recording data
 - analysing and recording results
- indicating pole condition by labelling/markings
- dealing with an unplanned event on at least one (1) occasion
- organising relevant work permits/approvals

- 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:

- relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - WHS/OHS
 - safe approach distances
 - manual handling
 - hazardous materials/substances
 - visual inspection requirements
- 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/approvals
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- poles, including:
 - types
 - characteristics
 - types of defects
- electricity network construction types
- pole testing methods and procedures
- test equipment, including:
 - types
 - selection
 - operation and characteristics
 - calibration
 - handling
 - maintenance
 - storage
- procedures for interpretation and recording of results
- pole marking/labelling requirements
- reporting requirements
- software applications and/or data capturing documentation.

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, equipment and PPE currently used to inspect and test poles at and below ground level
- applicable documentation, including workplace requirements, equipment specifications, regulations, codes of practice and operation manuals.

Links

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