



Australian Government

UETDRDO001 Inspect overhead poles, structures and electrical apparatus

Release: 1

UETDRDO001 Inspect overhead poles, structures and electrical apparatus

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 overhead poles, structures and electrical apparatus in the electricity supply industry (ESI).

It includes visual inspection of poles and structures above ground, overhead conductors and cables, underground to overhead transition points, electrical apparatus, hardware and earthing systems.

It also includes identifying and reporting defects.

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

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

UETDREL001 Apply environmental requirements

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Distribution Overhead

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 overhead poles, structures, and electrical apparatus

- 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** 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** Worksite is prepared in accordance with the work plan and workplace requirements
- 1.8** Traffic management plan is confirmed as being in place in accordance with workplace requirements

2 Inspect overhead poles, structures and electrical apparatus

- 2.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Climbing, working at heights and 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** Poles, structures and electrical apparatus are visually inspected in accordance with the work plan and workplace requirements
- 2.5** Inspection results are recorded in accordance with

	workplace requirements
	2.6 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 and equipment are cleaned, checked and returned to storage in accordance with workplace requirements
	3.5 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 unit replaces and is equivalent to UETTDRDP11 Inspect overhead poles-structures and 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 UETDRDO001 Inspect overhead poles, structures and electrical apparatus

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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)
- visually inspecting poles, structures and electrical apparatus
- identifying, categorising and recording defects
- undertaking inspections using at least one (1) of the following:
 - ground
 - vehicle
 - helicopter
 - fixed wing
 - remotely piloted aircraft (RPA)
 - elevated work platform (EWP)
 - 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:

- relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - WHS/OHS
 - safe approach distances
 - 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
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- poles, including:
 - types
 - characteristics
 - defects
- hardware, including:
 - types
 - characteristics
 - defects
- electrical apparatus, including:
 - types
 - characteristics
 - defects
- electricity networks, including:
 - construction types
 - identification of low voltage (LV)
 - identification of high voltage (HV)
 - clearances for overhead conductors, cables and structures
- identification and categorisation of defects
- procedures for recording inspection results.

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 inspecting overhead poles, structures and electrical apparatus

- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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