



Australian Government

**Assessment Requirements for
UETTDREL18 Inspect and treat poles and
inspect electrical apparatus**

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.

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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- inspecting and testing at least four (4) of the following:
 - wood
 - steel
 - concrete
 - composite
 - reinforced poles
- conducting all the following:
 - drill test
 - non-intrusive test
- undertaking all the following activities:
 - chemical treatment
 - reinforcement (remove)
 - fit a sleeve to stays/guys
- inspecting all the following:
 - poles and structures
 - overhead conductors/cables
 - underground/overhead transition points
 - electrical equipment
 - hardware
 - earthing systems
- completing inspection reports and updating records for all of the following:
 - poles and structures
 - overhead conductors/cables

- underground/overhead transition points
- electrical equipment
- hardware
- earthing systems
- using at least two (2) of the following:
 - un-aided eye
 - binoculars
 - electronic data capture using infra-red and/or digital video camera and/or computer
 - sonic tester
 - drill
- dealing with unplanned events on at least one (1) occasion.

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:

- poles and of electrical apparatus inspection safety requirements, including:
 - working safely with machinery and equipment near live electrical apparatus
 - working safely on or around electrical equipment through the application of risk management principles and control measures
 - selecting and using appropriate personal protective equipment (PPE)
 - implementing emergency procedures for the rescue of an electric shock victim
 - providing emergency first aid for an electric shock victim
 - safe handling and use of chemical treatments
 - visual checking and treatment of poles and structures
 - inspecting of overhead structures and electrical apparatus used on poles and/or structures
 - documenting inspection findings in accordance with enterprise requirements
- inspection of poles and electrical apparatus/equipment, including:
 - standards, codes, legislation, supply authority regulations and/or enterprise requirements
 - characteristics of wood used for structures within the electrical distribution system - relationship between timber and water, faults that occur that influence the integrity of the structure, effects and types of fungal activity, effects of termite and borer activity, and effects of rot
 - deterioration prevention techniques - relationship between steel, concrete and wood; inspection procedures for deterioration; deterioration prevention procedures in steel, concrete and wood; and procedures for the repair of deterioration in steel, concrete and wood
 - ground line inspection procedures of electrical distribution structures - requirements for pole inspection on electrical distribution structures, use of specific equipment and testing devices during testing/inspection, and methods of recording data
 - overhead line inspection procedures of electrical distribution structures - methods and requirements for overhead inspection on electrical distribution structures, including

cables, conductors and apparatus; clearances for overhead conductors; cables and structures; use of specific equipment and testing devices during testing/inspection; and methods of recording data.

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:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

UET Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>