



Australian Government

**Assessment Requirements for
UETTD RTP30 Inspect transmission
overhead structures and 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
- undertaking inspections of poles – structures and electrical apparatus including at least three (3) of the following inspection methods:
 - towers
 - overhead conductors/cables
 - structural fittings
 - electrical equipment
 - hardware
 - earthing systems
- undertaking inspections using at least two (2) of the following:
 - visual*
 - infra-red camera
 - X-ray
 - camera
 - binoculars/telescope
 - (* must do)
- complying with all of the following:
 - reporting procedures
 - reporting outcomes
- 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:

- standards, codes, legislation, supply authority regulations and/or enterprise requirements
- characteristics of materials used for transmission structures within the electrical transmission system encompassing:
 - faults that occur that influence the integrity of the structure
- deterioration of assets encompassing:
 - relationship between steel, concrete and other materials
 - deterioration in steel and concrete
 - inspection procedures for deterioration
- clearances and safety procedures
- ground line inspection procedures of electrical transmission lines encompassing:
 - requirements for inspection of transmission lines and insulators
 - use of specific equipment during inspection
 - techniques in transmission line inspection
- overhead line inspection procedures of electrical transmission lines encompassing:
 - methods and requirements for overhead line inspection on electrical structures
 - clearances for overhead conductors, cables and structures
 - techniques used to obtain close inspection of transmission lines
 - use of specific equipment and testing inspection
 - 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, facilities, equipment and personal protective equipment (PPE) currently used in industry for inspecting transmission overhead structures and electrical apparatus
- applicable documentation, including workplace procedures, relevant industry standards, 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>