



Australian Government

**Assessment Requirements for
UETTDREL19 Identify and interpret
characteristics of electrical apparatus
associated with power industry assets**

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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
- confirming operational knowledge associated with the characteristics of electrical apparatus in eight (8) of the following:
 - single wire earth return (SWER)
 - high voltage (HV) overhead conductors and cables
 - low voltage (LV) overhead conductors and cables
 - underground cables (as attached to the poles)
 - overhead transition points and termination hardware
 - vibration mitigation hardware
 - insulators, cross-arms, cross-arm mountings and brackets
 - switches, HV fuses and fuse carriers, surge diverters and auto-reclose devices
 - pole mounted transformers and substations
 - possum guards and earth guards
 - angle of the pole
 - height of conductors
 - public lights, bolts and associated pole fixings
- confirming knowledge associated with the characteristics of at least four (4) of the following:
 - wood pole
 - steel pole
 - concrete pole
 - composite pole
 - reinforced poles
- 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:

- electrical apparatus safety requirements encompassing:
 - working safely with machinery and equipment near live electrical apparatus
 - 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
- inspection of electrical apparatus encompassing:
 - standards, codes, legislation, supply authority regulations and/or enterprise requirements
 - visual checking of poles and structures
 - identification of electrical apparatus associated with power industry assets within the electrical distribution system - SWER, HV overhead conductors and cables, LV overhead conductors and cables, underground cables (as attached to the poles), overhead transition points and termination hardware, vibration mitigation hardware, insulators, cross-arms, cross-arm mountings and brackets, switches, HV fuses and fuse carriers, surge diverters, auto-reclose devices, pole mounted transformers and substations, possum guards, earth guards, angle of the pole, height of conductors, public lights, bolts and associated pole fixings
 - operational knowledge of the purpose of electrical apparatus associated with power industry assets within the electrical distribution system - SWER, HV overhead conductors and cables, LV overhead conductors and cables, underground cables (as attached to the poles), overhead transition points and termination hardware, vibration mitigation hardware, insulators, cross-arms, cross-arm mountings and brackets, switches, HV fuses and fuse carriers, surge diverters, auto-reclose devices, pole mounted transformers and substations, possum guards, earth guards, angle of the pole, height of conductors, public lights, bolts and associated pole fixings
 - interpretation of the operational characteristics and purpose of electrical apparatus associated with power industry assets
 - documenting inspection findings in accordance with enterprise requirements.

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>