



Australian Government

**Assessment Requirements for
UETTD RTP29 Install and maintain
transmission overhead conductors and
cables**

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
- using at least one (1) of the following:
 - copper
 - aluminium
 - steel
 - composite
 - aluminium/steel reinforced
 - pilot
- operating from at least two (2) of the following:
 - elevated work platform (EWP)
 - portable platform
 - gondola
 - hook ladder*
 - elevated work box (EWB)
 - (*must do)
- using at least five (5) of the following:
 - winches*
 - tension equipment*
 - stringing equipment
 - cable trailers
 - crimping equipment *
 - pre-formed splices
 - hardware
 - cable drum stands

- ropes
- rollers/ sheaves
- comealongs
- swivels
- (*must do)
- using at least two (2) of the following:
 - voltage/de-energised indicating device
 - field intensity meter
 - operating rods
 - (*must do)
- using at least one (1) of the following:
 - dynamometer
 - site board
 - abney level
 - sag chart*
 - theodolite
 - (*must do)
- 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:

- limits of approach for personnel, vehicles, mobile plant and (EWP)
- requirements of persons prior to making bare hand contact with dead low voltage (LV)mains and apparatus
- requirements of relevant electrical access permits necessary to allow work to be performed on LV and high voltage (HV)apparatus
- safe working practices, including:
 - requirements to enable safe working on conductive poles
 - procedures to attach an on-site earthing device to de-energised LV and HV overhead circuit
 - safe working practices when working with associated hardware/equipment and insulators
 - precautions of voltages on transmission structures
 - dangers when working at heights
 - identification of hazards, assessing and controlling risks
 - types, selection, maintenance and uses of personnel protective equipment (PPE)
 - permit to work systems and isolation procedures
 - safe working practices when using specialised equipment
 - emergency response and rescue procedures, including first.

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 PPE currently used in industry for installing and maintaining transmission overhead conductors and cables
- 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>