



Australian Government

Assessment Requirements for UETTD RTP27 Maintain transmission structures and associated hardware

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
- maintaining transmission structures including any one (1) of the following:
 - pyramid
 - delta pi
 - enterprise-specific type
- removing, repairing or replacing transmission associated hardware including at least two (2) of the following:
 - insulators
 - clamps
 - bolts
 - structural components
- undertaking maintenance of transmission structures and associated hardware including at least one (1) of the following:
 - welding
 - cleaning
- 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:

- procedures for gaining access permits
- reasons for gaining access
- types of maintenance procedures on transmission structures encompassing:
 - procedure to follow for inspection/patrols according to the transmission apply authority

- erecting and removing of transmission equipment and hardware from a tower encompassing:
 - climbing procedures
 - square rigging principles
 - calculation of forces at work within a given square rigging system
 - construction of a square rigging system
 - procedures for changing insulators, such as:
 - vertical angle suspension, strain insulator, post insulator (horizontal or vertical) and bridge insulator, and calculation of conductor forces
- installation of temporary work platforms encompassing:
 - types and function of installation tools and equipment
 - precautions and work methods to follow
 - procedures for installations of temporary work platforms
- installation of conductor protective hardware encompassing:
 - types and selection of common dampers, tools and equipment
 - control of Aeolian vibration
 - procedures for the installation of dampers onto conductors
- dead line insulator washing encompassing:
 - supply authority regulations
 - procedure for washing de-energised transmission lines.

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 maintaining transmission structures and associated hardware
- 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>