



**Australian Government**

**Assessment Requirements for  
UETDRTO007 Install and maintain  
transmission structures and hardware**

**Release: 1**

# Assessment Requirements for UETDRTO007 Install and maintain transmission structures and hardware

## Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

## 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 legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
  - work health and safety (WHS)/occupational health and safety (OHS)
  - safe approach distances
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- installing at least two (2) types of structures
- installing all of the following hardware:
  - insulators
  - bolts
  - structural components
- maintaining at least two (2) types of structures
- maintaining at least two (2) types of hardware
- replacing at least two (2) of the following insulators:
  - strains/termination
  - suspension
  - post
  - V strings
- installing working earths in accordance with workplace requirements
- installing temporary work platform
- dealing with an unplanned event on at least one (1) occasion
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- completing relevant work records, reports and documentation.

## 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:

- relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
  - WHS/OHS
  - safe approach distances
  - transmission voltages
  - working earths
- hazard, risk assessment and risk control requirements, including potential hazards of:
  - induced voltages
  - currents
- types and application of PPE
- safe use of plant, tools and equipment
- application, purpose and types of permits
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- construction manuals, system diagrams/plans and drawings
- role and responsibilities of a safety observer
- types and location of structures
- types and function of hardware
- types and function of insulators
- types of foundations
- structure stabilisation methods
- calculation of conductor forces
- temporary work platforms
- conductor protective hardware, including:
  - types and selection of common dampers, tools and equipment
  - control of Aeolian vibration
- third-party assets used on transmission structures, e.g., mobile communication antenna.

## 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:

- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry for the installation and maintenance of transmission structures and hardware
- applicable documentation, including workplace requirements, relevant industry standards, regulations, codes of practice and operation manuals.

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>