



Australian Government

Assessment Requirements for UETDRIS007 Install and maintain distribution 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 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)
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- determining communication method with safety observer
- confirming safety observer is in position in accordance with workplace requirements
- installing at least two (2) types of overhead conductors/cables
- connecting and terminating conductors and cables in accordance with workplace requirements
- repairing overhead conductors/cables using at least two (2) of the following:
 - compression sleeves
 - splice
 - bullets
 - mid span joint
 - armour rods
- terminating conductors and cables
- connecting conductors and cables
- using at least two (2) types of height access methods
- using at least one (1) of the following types of stringing methods:
 - layout
 - pull through
 - pilot rope
- using at least three (3) of the following types of stringing equipment:
 - cable drum stands
 - cable trailers
 - ropes

- rollers
- sheaves
- stockings
- swivels
- winches
- using at least one (1) of the following tensioning methods:
 - dynamometer
 - site board
 - beat (wave sagging)
 - theodolite
- using testing equipment in accordance with workplace requirements
- recording test results in accordance with workplace requirements
- 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
- hazard, risk assessment and risk control requirements, including potential hazards
- types and application of PPE
- safe work practices, including:
 - working on conductive poles
 - short circuiting/earthing de-energised low voltage (LV) and high voltage (HV) circuits
 - safe use of plant and equipment
- application, purpose and types of work permits
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- safety observer:
 - role and responsibilities
 - communication methods
- construction manuals, tension charts/tables, system diagrams/plans and drawings
- types, sizes, properties and characteristics of overhead conductors/cables
- types of LV and HV overhead conductor/cable connections
- types of LV and HV overhead conductor/cable terminations
- causes and effects of poor electrical connections

- overhead conductor/cable clearances, including:
 - to ground
 - to LV/HV structures
 - waterways
 - carriageways
 - buildings
 - bridges
 - railways
- techniques for conductor/cable installation, including:
 - types and application of tools, equipment and hardware
 - procedures for stringing, tensioning and termination of LV and HV conductors/cables.

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 installing and maintaining distribution overhead conductors and cables
- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, 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>