



Australian Government

UETDRIS012 Install and maintain poles, structures and hardware

Release: 1

UETDRIS012 Install and maintain poles, 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.

Application

This unit involves the skills and knowledge required to install and maintain poles, structures and hardware in the electricity supply industry (ESI).

It includes assembling, fixing and attaching hardware, erecting, stabilising, repairing, replacing and supporting poles and structures (excluding towers).

It also includes repairing and replacing hardware.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may also apply under State and Territory legislative and regulatory licensing requirement which must be confirmed prior to commencing this unit.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UETDREL001 Apply environmental requirements

UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Prepare to install and maintain poles, structures and hardware

- 1.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are referred to and confirmed
- 1.2** Work plan is obtained and confirmed in accordance with workplace requirements
- 1.3** Materials required for work are determined and obtained in accordance with work plan and workplace requirements
- 1.4** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.5** Hazards are identified, risks assessed and control measures identified and applied
- 1.6** Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.7** Work permits are received and signed in accordance with workplace requirements
- 1.8** Worksite is prepared in accordance with the work plan and workplace requirements
- 1.9** Traffic management plan is confirmed as being in place in accordance with workplace requirements

2 Carry out installation and maintenance of poles, structures and hardware

- 2.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Lifting, climbing, working at heights and the use of plant, tools, equipment and PPE are carried out in accordance with workplace requirements
- 2.3** Hazard control measures are monitored in accordance with workplace requirements
- 2.4** Hardware is assembled and fixed to the pole/structure in accordance with work plan and workplace requirements

- 2.5 Poles or structures are erected and stabilised in accordance with work plan and workplace requirements
- 2.6 Hardware is maintained in accordance with work plan and workplace requirements
- 2.7 Poles or structures are maintained in accordance with work plan and workplace requirements
- 2.8 Incidents or unplanned events are responded to in accordance with workplace requirements
- 2.9 Quality checks of work are undertaken in accordance with work plan and workplace requirements
- 3 Complete work and documentation**
 - 3.1 Completed work is checked for compliance against the work plan and workplace requirements
 - 3.2 Incidents or unplanned events are reported in accordance with workplace requirements
 - 3.3 Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements
 - 3.4 Plant, tools and equipment are cleaned, checked and returned to storage in accordance with workplace requirements
 - 3.5 Surplus materials are returned to storage or disposed of in accordance with workplace requirements
 - 3.6 Work permits are signed off in accordance with workplace requirements
 - 3.7 Work records, reports and documentation are completed in accordance with workplace requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UET Transmission, Distribution and Rail Sector

Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRI52 Install and maintain poles, structures and associated hardware.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for UETDRIS012 Install and maintain poles, structures and hardware

Modification History

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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)
- installing and maintaining at least one (1) of the following pole/structure types:
 - wood
 - steel
 - concrete
 - composite
- installing and maintaining at least three (3) of the following hardware types:
 - insulators
 - cross-arm braces
 - cross arms
 - pole steps
 - shackle straps
 - earth leads
 - traction supports
 - traction registration
 - bonding
- using at least one (1) of the following pole stabilisation methods:
 - compaction
 - baulking
 - stays
 - concreting (including formwork)
- 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 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
- construction manuals, system diagrams/plans and drawings
- characteristics and applications of different types of poles/structures and hardware
- installation of poles/structures and hardware, including:
 - stays/guys
 - erection methods
 - types of installation equipment/tools
 - excavation methods
 - types of footings/foundations
 - types of attachments
 - earthing
 - bonding
 - safe methods of erecting and stabilising poles/structures and cross arms
- maintenance of poles/structures and hardware, including:
 - stays/guys
 - supporting unstable poles/structures
 - strengthening methods
 - insulators and cross arms.

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 poles, structures and hardware
- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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