



Australian Government

UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

Release: 1

UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

Modification History

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

Application

This unit involves the skills and knowledge required to operate plant and equipment near live electrical conductors and apparatus in the electricity supply industry (ESI).

It includes using relevant plant and equipment, relevant legislation, regulatory requirements for the operation of plant and equipment and conducting operational checks. It also includes, positioning road signs, barriers and/or warning devices and completing log books and job completion documentation.

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

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

Common Unit Group

UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

UETTDREL16 Working safely near live electrical apparatus

Competency Field

Entry Level Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- | | |
|---|--|
| <p>1 Prepare to operate plant and equipment near energised and exposed electrical conductors/apparatus</p> | <p>1.1 Works schedules, construction plans, drawings, workplace procedures and material lists are received and confirmed</p> <p>1.2 Job requirements and workplace procedures are identified and communicated with relevant personnel</p> <p>1.3 Work health and safety (WHS)/occupational health and safety (OHS) policies and procedures related to requirements and workplace procedures for the operation of plant and equipment near energised and exposed electrical conductors/apparatus are obtained and confirmed for the purposes of the work to be performed and communicated to others</p> <p>1.4 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant personnel and in accordance with workplace procedures</p> <p>1.5 Hazards are identified, WHS/OHS risks assessed and control measures identified in accordance with workplace procedures</p> <p>1.6 Relevant work permits are obtained, understood and signed in accordance with workplace procedures</p> <p>1.7 Plant, equipment, tools and personal protective equipment (PPE) required for work is identified, obtained and confirmed in working order</p> <p>1.8 Worksite is prepared to minimise risk, damage to property, commerce and individuals in accordance with workplace procedures</p> <p>1.9 Traffic management plan is confirmed as being applied in accordance with workplace procedures</p> |
| <p>2 Carry out the operation of plant and equipment near energised and exposed</p> | <p>2.1 WHS/OHS, sustainable energy and environmental principles and practices are monitored and followed to reduce incidents in accordance with workplace</p> |

electrical conductors/apparatus	procedures
2.2	Requirements for lifting and/or climbing and/or working at heights and the use of power tools/equipment are followed in accordance with workplace procedures
2.3	Plant and equipment near energised and exposed electrical conductors/apparatus are operated to agreed timeframes, to quality standards with a minimum of waste in accordance with workplace procedures
2.4	Plant and equipment are safely operated near energised and exposed electrical conductors/apparatus in accordance with job requirements, work permits and workplace procedures
2.5	Unplanned events in the operation of plant and equipment near energised and exposed electrical conductors/apparatus are responded to in accordance with workplace procedures and approval of authorised personnel
2.6	Quality checks of work are undertaken in accordance with workplace procedures
3 Complete the operation of plant and equipment near energised and exposed electrical conductors/apparatus	3.1
	Completed work is checked against work schedule, construction plans and drawings for compliance and anomalies are reported in accordance with workplace procedures
	3.2
	WHS/OHS and environmental incidents are reported in accordance with workplace procedures, as required
	3.3
	Worksite is cleaned and made safe in accordance with workplace procedures
	3.4
	Tools, equipment and surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with workplace procedures
	3.5
	Relevant work permits are signed off and plant and equipment are checked, returned to service/stored appropriately in accordance with workplace procedures
	3.6
	Work records, reports and/or documentation are completed in accordance with workplace procedures

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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDREL12A Operate plant and equipment near live electrical conductors and apparatus.

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>

Assessment Requirements for UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

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 four (4) of the following support equipment:
 - portable generators
 - chain saws
 - concrete cutters
 - jack hammers
 - welders
 - compressor
 - crimper-cutters
 - pumps
 - post hole diggers
 - drills
 - friction grip winches
 - pullers
 - block and tackle
- using at least one (1) of the following support equipment:
 - elevated work platform (EWP)
 - back hoes
 - self-loading vehicle
 - borer
 - bobcat
 - trench excavators
 - heavy vehicles
- 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:

- safety precautions, requirements and responsibilities
- selection and use of appropriate personal protective equipment (PPE)
- chain saw operation, including:
 - parts and function of components and ancillary equipment
 - pre-operational checks
 - starting procedures
 - safe use of chain saw under load
 - safe transporting and storage procedures
- standards, codes, legislation, supply authority regulations and/or enterprise requirements associated with (EWP, including relevant certification and licensing, including:
 - safe working clearances
 - safe operation procedures and the mandatory wearing of harness/attachment requirements
 - safety observers
 - inspection and testing procedures prior to use
 - set-up, operation and shutdown procedures for an EWP
- emergency procedures for an EWP, including:
 - escape procedures for an EWP
 - rescuing procedures
 - mechanical failure procedures
- types of EWP - insulated/uninsulated
- standards, codes, legislation, supply authority regulations and/or enterprise requirements associated with safe use of enterprise vehicles, including relevant certification and licensing such as:
 - motor cars
 - light and heavy commercial trucks
 - heavy truck/trailer combination
 - four-wheel drive vehicles
- compliance with regulations associated with the securing of loads prior for transportation
- standards, codes, legislation, supply authority regulations and/or enterprise requirements associated with portable hydraulic equipment and portable pneumatic equipment, including relevant certification and licensing, including:
 - safe working clearances
 - safe operation procedures
 - safety observers
 - inspection and testing procedures prior to use
 - set-up, operation and shutdown procedures
- permit to work systems and isolation procedures

- standards, codes, legislation, supply authority regulations and/or enterprise requirements associated with rigging, including the operation of cranes, hoists and winches and relevant certification and licensing (if required)
- requirements for the use of enterprise construction manuals, system diagrams/plans and drawings
- safe use of rigging equipment, tools and associated equipment, including:
 - types, techniques and application
 - site inspection procedures
 - identifying hazards, assessing and controlling risks
 - appropriate sequence of loading and unloading
- determining the mass and dimensions of load
- selection and inspection procedures, including:
 - rigging equipment, materials and tools, such as:
 - natural and synthetic fibre ropes and chains, fittings, winch and capstan
 - ratings of wire ropes and slings
 - removing, repairing and replacing of damaged parts
- techniques for assembling and erecting power winches and capstans
- checking the integrity of support structure, and visual inspection of load connections
- techniques in moving, lifting, shifting, managing and placing loads, including:
 - use of appropriate communication and signalling methods
 - codes of practice/compliance
 - enterprise and Commonwealth/state/territory legislative requirements
 - weather conditions
 - erection of safety nets and lines
 - methods of fixing and anchoring loads
 - load stability.

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 operating plant and equipment near live electrical conductors and apparatus
- 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>