



Australian Government

UETTDRVC32 Use specialised plant to cut vegetation above ground level near live electrical apparatus

Release: 1

UETTDRCV32 Use specialised plant to cut vegetation above ground level near live electrical 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 covers removal of vegetation above ground level, up to the live work zone as defined for both authorised and instructed persons in the industry guidelines associated with live electrical apparatus, using the established cutting plan relevant to the vegetation type. It encompasses the safe use of specialised plant and equipment according to requirements and established procedures. It includes safely accessing trees from ground level to remove tree limbs in a safe manner. It does not include entry of persons, mobile plant, equipment, and/or specialised tools into the safe approach distance (SAD) as defined.

Also included is the preparation of risk assessment control measures that encompass job safety assessment. All work and zones are in compliance with relevant state or territory regulatory agencies/bodies, local government legislation, industry bi-partite bodies, guidelines/codes of practices or other related requirements for safe work and access near live electrical and mechanical apparatus.

The skills and knowledge described in this unit may only be practiced under the regulations pertaining to each state and territory for the safe planning and the removal of vegetation around live powerlines up to the live work zone, including near live electrical apparatus, and regulations that directly relate to work health and safety (WHS)/occupational health and safety (OHS) and/or contracts of training where they apply.

Pre-requisite Unit

Common Unit Group

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

UETTDREL13 Comply with sustainability, environmental and incidental response policies and procedures

UETTDREL14 Working safely near live electrical apparatus as a non-electrical worker

UETTDRCV23 Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus

UETTDRCV27 Monitor safety compliance of vegetation control work in an ESI environment

UETTDRCV33 Apply pruning techniques to vegetation control near live electrical apparatus

Competency Field

Vegetation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Select and prepare specialised plant for use near live electrical apparatus

PERFORMANCE CRITERIA

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

- 1.1** Specialised plant is selected and prepared to job requirements and confirmed against work plan
- 1.2** Routine pre-operational checks of specialised plant are completed to manufacturer specifications and enterprise requirements
- 1.3** WHS/OHS hazards in the workplace are recognised, risk assessed and minimised according to enterprise requirements
- 1.4** Requirements for safe working procedures and legislation during transport are recognised and followed
- 1.5** Procedures and risk control measures are in place and followed in the event of an incident
- 1.6** Incidents are appropriately reported according to established procedures

2 Operate specialised plant near live electrical apparatus

- 2.1** Plant is operated in a safe and controlled manner and monitored for performance and efficiency
- 2.2** Risks to self, others and the environment are anticipated and minimisation strategies implemented accordingly
- 2.3** Suitable personal protective equipment (PPE) is selected, used, maintained and stored according to WHS/OHS requirements

	2.4	Environmental implications associated with specialised plant operation are identified, assessed and reported according to established procedures
	2.5	Non-routine events are referred to immediate authorised personnel for directions according to established procedures
3 Complete operations and report on specialised plant operation near live electrical apparatus	3.1	Shutdown procedures for specialised plant are completed to manufacturer specifications and enterprise requirements
	3.2	Specialised plant operational records are completed and maintained according to enterprise requirements
	3.3	Malfunctions, faults, irregular performance and damage to specialised plant are detailed and reported according to enterprise requirements
	3.4	Specialised plant is cleaned, secured and stored according to manufacturer specifications, WHS/OHS and enterprise 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRCV32A Use specialised plant to cut vegetation above ground level near live electrical 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 UETTDRVC32 Use specialised plant to cut vegetation above ground level near live electrical apparatus

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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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- operating specialised plant, including at least three (3) of the following:
 - mechanical tree trimmer
 - boom-operated mower
 - boom-operated groomer
 - hedger
- conducting routine pre-operational checks of specialised plant and equipment, including all of the following:
 - pre-start and safety checks according to manufacture specifications
 - checking and confirming equipment calibration settings and operating methods
 - observing and monitoring noise levels for correct operation
 - preparing independently powered tools, including cleaning, priming, tightening, basic repairs and adjustments
 - identifying and segregating unsafe or faulty equipment for repair or replacement
 - pre and post operational checks, inspections and minor maintenance
 - safe deployment of machinery and equipment in varying conditions and weather
- interpreting and applying all of the following:
 - standard operating procedures (SOPs)
 - industry standards
 - production schedules
 - material safety data sheets (MSDSs)
 - work notes
 - product labels
 - manufacturer specifications

- operator manuals
- enterprise policies and procedures (including waste disposal, recycling and re-use guidelines)
- supervisors oral or written instructions
- work and routine maintenance plans
- determining WHS/OHS hazards encountered in the workplace including, all of the following:
 - exposure to:
 - loud noise
 - fumes
 - solar radiation
 - dust
 - ergonomic hazards associated with posture and vibration
 - hazardous substances (fuel, oils, fertiliser)
 - oil and grease spills
 - presence of:
 - bystanders
 - livestock and wildlife
 - difficult terrain and varying gradients
 - potholes
 - ditches
 - gullies
 - embankments
 - obstacles (rocks, logs, fences, debris and buildings)
 - extreme weather conditions
 - electricity
 - overhead powerlines
 - mechanical malfunctions and exposed moving parts, and other machinery, including hydraulics
- selecting and using specialised plant and equipment
- using operational techniques for the specific terrain (on and off-road environments) and weather conditions
- maintaining working loads within specifications, including ensuring hitch-points are operated at the correct height
- determining personal protective equipment (PPE) required for work, including all of the following:
 - boots
 - hat/hard hat
 - overalls
 - gloves
 - protective eyewear
 - hearing protection

- respirator or facemask
- sun protection (sun hat and sunscreen)
- confirming environmental implications associated with the operation of machinery and equipment including all of the following:
 - the use and disposal of maintenance debris and hazardous substances
 - run-off flows of water and cleaning agents from servicing maintenance and cleaning activities
 - soil disturbance and dust problems
- confirming what procedures are included in the shutdown of machinery and equipment according to manufacturer SOPs
- 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:

- enterprise-specific vegetation control specialised plant encompassing:
 - types and application of specialised plant – sky trim, bushy, jarraff, hedging tractor, and timber pro (harvester)
 - purpose and use of cutting plans relevant to the vegetation type
 - cutting techniques of vegetation control specialised plant
 - techniques in undertaking different branch cuts - scarf under-cut, top cut technique, top scarf bottom-back cut technique, and side scarf opposite back-cut technique, including size of cut
 - definitions of drop zone and full zone
 - pre-operational checks on vegetation control specialised plant
 - electrical test requirements e.g. test and certify periodically
 - techniques in safely using vegetation control specialised plant - visual inspection of vegetation control specialised plant, methods of using equipment at heights and in confined spaces, and precautions to note during use of specialised plant (proximity of other personnel, proximity of powerlines and obstacles, role of safety observer, length of power lead and possible fire danger due to sparks)
 - types of PPE used in conjunction with vegetation control specialised plant - head protection, eye protection, hearing protection, hand protection, foot protection, body protection and general protection
 - basic maintenance of vegetation control specialised plant - cleaning, proper storage, basic repair and replacement, and testing for compliance to manufacturer and WHS/OHS requirements.

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, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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