



Australian Government

**Assessment Requirements for
UETTDRVC21 Use climbing techniques to
cut vegetation above ground near live
electrical apparatus**

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.

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
- confirming operational knowledge associated with the cutting vegetation above ground outside live work zone near live electrical apparatus in all of the following:
 - principles of electricity and three phase power system
 - power system
 - recognition of aerial voltage systems
 - identification of low voltage (LV) aerial circuits
 - identification of high voltage (HV) aerial circuits
 - safe working zone and ordinary person zone so defined by relevant authorities
 - use of technical standards, acts, regulations, codes /guidelines and established/enterprise/asset owner's procedures
 - system control - information required and function
 - vicinity permit - Information required and function
 - sensitive earth fault system
 - environmental principals and procedures
- confirming safe practices associated with the cutting vegetation above ground outside live work zone near live electrical apparatus in all of the following:
 - WHS/OHS safety practices and procedures
 - electric shock and resuscitation
 - release and rescue
 - role of the safety observer
 - events constituting an incident
 - procedures in the event of/responding to incidents
 - methods of identifying hazards

- risk assessment procedures for both worksite and pre-job checklist
- selection of the best position for monitoring and controlling work (cutting)
- selection of correct line of site to the cutter
- correct observation of the work from ground level
- constant analysis and decision making relevant to the safety of the work, taking into account prevailing site conditions (lay of the land) and ongoing weather conditions
- confirming vegetation control associated with the cutting vegetation above ground outside live work zone near live electrical apparatus in all of the following:
 - identifying tree types
 - confirming vegetation species and types
 - confirming vegetation cutting techniques for different vegetation
 - confirming appropriate vegetation machinery and equipment to be used
 - using feeder route plans
- confirming the safe cutting of vegetation above ground outside live work zone near live electrical apparatus in all of the following:
 - using cutting plans relevant to the vegetation type
 - safely using all relevant personnel protective equipment (PPE)
 - using safe rigging and climbing procedures and techniques
 - safely operating restraints, slings, lifting and loads
 - safely using tools and equipment, such as hand saws, chainsaws, specialised tools and equipment and/or power pruners above ground
 - safely using chemical control and application above ground
 - using safe cutting, pruning and tree trimming techniques above ground near electrical apparatus
 - conducting pre and post-operational checks, inspection and minor maintenance
 - safely deploying equipment and tools in varying ground conditions and weather
 - safely removing debris
- 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:

- climbing techniques encompassing:
 - Commonwealth/state/territory and local government legislation, standards, codes, supply authority regulations and/or enterprise requirements, including relevant certification and licensing applicable to climbing for the purpose of vegetation control
 - vegetation that is and is not permissible to climb for vegetation control
 - safety precautions which are specific to tree climbing structures for the control of vegetation - safe working practices and procedures; WHS/OHS hazards and precautions; identification of WHS/OHS hazards; assessment and control of WHS/OHS risks; types, selection, maintenance, storage and use of PPE, including harnesses; dangers of climbing

- in confined spaces and at heights; permit to work systems and isolation procedures/protocols; safe working policies, procedures and practices when climbing; and emergency response and rescue, including first aid
- techniques in safe methods of controlling the descent of vegetation in an electrical environment - safety procedures, including safety ropes and lines; checking and setting up equipment; load calculations/estimations; techniques in using lowering equipment; and determining the serviceability of ropes and other lowering devices
 - load charts and safe working load estimates - field formulas; branch and trunk calculations; mathematical calculations; and use of technology related to loads, slings, weights and height
 - tree climbing and pruning practices - safe climbing with ropes and harnesses; methods of ensuring operation of safety lines and ropes, roping techniques, load bearing equipment and lifts; purposes of restraints, straps, slings, bends and hitches; purposes of pulleys, maillon rapides, lowering drum and T-bar flying capstan; and techniques in climbing with spikes and pole belts
 - role of safety observer and delimitation of fall and drown zones
 - enterprise-specific vegetation control equipment encompassing:
 - types and application of vegetation cutting tools – chainsaws, tool line, and specialised pruning tools (cocky beaks and pruning saws)
 - purpose and use of cutting plans relevant to the vegetation type
 - cutting techniques of vegetation control tools and equipment
 - 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
 - pre-operational checks on vegetation control tools and equipment
 - techniques in safely using vegetation control equipment - visual inspection of vegetation control equipment, methods of using equipment at heights and in confined spaces, and precautions to note during use of equipment (proximity of other personnel, proximity of powerlines and obstacles, and possible fire danger due to sparks)
 - types of PPE used in conjunction with vegetation control equipment - head protection, eye protection, hearing protection, hand protection, foot protection, body protection and general protection
 - basic maintenance of vegetation control equipment - 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.

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>