



Australian Government

Assessment Requirements for UETTD RIS42 Maintain network infrastructure electrical equipment

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
- performing maintenance of network infrastructure electrical equipment using at least three (3) of the following:
 - fuse switches
 - dropout fuses
 - sectionalisers
 - disconnectors
 - links
 - fuses
 - surge arrestors
- using at least one (1) of the following:
 - reclosers
 - gas filled switches
 - ring main units
 - oil filled switches
 - air break switches
- maintaining network infrastructure electrical equipment for at least one (1) of the following equipment types:
 - transformers
 - reactors
 - regulators
 - capacitors
 - relays
 - line fault indicators
- using specialist testing equipment, including at least three (3) of the following:

- voltage detectors
- phasing equipment
- clip-on ammeters
- insulation resistance testers
- recording meters
- earth resistance testers
- 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:

- types and function of various switchgear, such as:
 - isolators, air-break switches, gas-filled switches, vacuum type, links, fuses, oil disconnectors, fuse switches, circuit breakers, operating characteristics, advantages and disadvantages of different types switchgear, installation procedures, earthing, and requirements and techniques
- types of equipment, such as:
 - transformers, reactors, regulators, capacitors, relays, surge arrestors, fault indicators and mobile generators
- maintenance procedures for switchgear and equipment encompassing:
 - diagnosing and rectifying faults according to electricity supply industry (ESI) standards and procedures
- testing and commissioning encompassing:
 - ESI standards and procedures.

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 personal protective

equipment (PPE) currently used in industry for maintaining network infrastructure electrical equipment

- 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>