



Australian Government

**Assessment Requirements for
UETTDRIS34 Install and replace energy
meters and associated equipment in remote
communities**

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
- installing and replacing any one (1) of the following whole current energy meters and associated equipment:
 - induction disk energy meter
 - electronic energy meters
 - maximum demand meters
 - electronic summators
- installing at least one (1) of the following associated equipment:
 - service fuses
 - service links
 - meter boards
 - meter panels
- installing at least one (1) of the following associated equipment:
 - time switches
 - frequency injection relays
 - controlled output meters
 - contactors
- 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:

- standards, codes, legislation, supply authority regulations and/or enterprise requirements pertaining to the installation and replacement of energy meters and associated equipment

- construction, operation and selection of whole current energy meters (single, polyphase, pre-payment, demand, induction and electronic)
- construction, operation and selection of associated equipment-service protection device, high rupturing capacity (HRC), circuit breaker, meter boards, main switch, meter enclosure and service links
- metering arrangements - direct metering, distributed master metering, multiple master metering, plug-in metering, multiple earth neutral (MEN) system, and typical cable routes through buildings
- cable types and applications -cable construction, sizes and ratings and requirements for protection and supporting cables
- installation tools and equipment required
- installation and removal of energy meters - stripping cable correctly, need for sound terminations, wiring meter position correctly, fitting service protection device (SPD), fitting meter boards and fitting meters
- testing procedures - continuity testing, insulation testing, polarity testing, phase sequence testing, neutral integrity testing and meter functionality testing
- completing energy meter documentation
- customer education on energy meters
- techniques for the maintenance of energy metering (fault finding, fault rectification, meter reading and tariff changes).

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 installing and replacing whole current energy meters and associated equipment in remote communities
- 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>