



Australian Government

Assessment Requirements for UETDRTS024 Test and maintain energy/revenue metering schemes

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 Release 2.0.

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, on at least three (3) occasions, testing/maintaining all of the following:
 - ensuring meter function
 - determining energy flows, voltage, current and phasor relationships
 - inspecting/monitoring equipment
 - gathering of information to ensure the application of standards and specifications have been met
 - specific notification of faults with metering equipment affecting energy registration and revenue billing in accordance with established procedures
 - ensuring that the installation is operating within prescribed limits (enterprise, manufacturer and regulated energy market requirements)
 - making recommendations, adjustments, replacements and repairs
- performing, on at least three (3) occasions, all of the following:
 - isolating, at local fuses and links
 - determining actions against standards if additional isolation is required
- demonstrating, on at least three (3) occasions, the functionality of the metering scheme in accordance with:
 - electrical installation (state and national) standards
 - metrology procedures
 - compliance to tariff requirements
- 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:

- operation of energy metering test equipment
- test equipment encompassing:
 - voltmeters, amp meters, Ohm meters, kWh/kVarh standards, tong ammeters, phase rotation meter, power factor meters, power quality meters, phantom load devices, current/voltage injection devices, measurement bridges, insulation resistance tester, phase angle meters, multimeters, standard current transformers/voltage transformers and insulated operating sticks
- other equipment encompassing:
 - personal computer, calculator, stop watches, printers, telecommunication devices and global positioning systems (GPS)
- testing principles and theories
- techniques in the testing and maintenance procedures of energy metering schemes in accordance with Commonwealth/state/territory legislation, supply authority regulations and enterprise standards
- compliance with ISO 9001:2015 Quality Management Systems
- evaluation of test results to ensure compliance with ISO and Australian Standards
- notification of non-compliance to relevant parties.

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
- relevant plant, drawings, manufacturer specifications/manuals and specialised testing equipment
- applicable documentation, including workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>