



Australian Government

Assessment Requirements for UETTDRTS47 Commission energy/revenue metering schemes (complex)

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 on at least three (3) occasions, the commissioning of at least seven (7) of the following complex metering scheme types:
 - multiple feeder high voltage (HV) and low voltage (LV) customers
 - summation
 - subtraction
 - interposing
 - voltage changeover schemes
 - generation
 - zone substation
 - bulk supply
 - interconnector
 - wholesale metering
- performing on at least three (3) occasions, at least six (6) of the following activities:
 - isolation
 - inspection
 - monitoring
 - testing
 - adjustment
 - repair
 - refurbishment and/or overhaul
 - functional checks of complex revenue metering schemes
- performing on at least three (3) occasions, all the following activities:
 - ensuring meter function using multiple proprietary software applications
 - determining energy flows, voltage, current and phasor relationships

- validating against independent information sources and test results to ensure that the installation is operating within prescribed limits (enterprise, manufacturer, and regulated energy market requirements)
- validation of the actual meter energy data against meter data provider remote data streams
- calculating and recording the overall installation site
- ensuring compliance with regulated energy market compliance
- endorsing the site overall accuracy and installation compliance as the technical representative authorised by the metering provider
- ensuring all records of the commissioning of energy/revenue metering schemes (complex) are complete and forwarded to the appropriate authority in accordance with regulatory 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:

- additional hardware components which add complexity and the possibility for greater uncertainty in overall accuracy
- calculations are more complex and require consideration of multiple sources of errors to accurately determine the overall site errors
- calculation and verification of correct application of transformer losses, transmission line losses and correction factors in meter programming
- determining the inputs and relationships required of physical metering points to establish and verify logical metering schemes
- consideration to all sources of burden on the metering instrument transformers and ensuring the instrument transformer is operating within its accuracy limits
- communicating with market participants, including meter data provider and responsible person
- knowledge of high fault currents
- risk assessments and safe systems of work.

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
- 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>