



Australian Government

UETDRTS016 Maintain compliance with national electricity market metrology practices and procedures

Release: 1

UETDRTS016 Maintain compliance with national electricity market metrology practices and procedures

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.

Application

This unit covers demonstrating an understanding of the regulated energy market national regulations to daily work practices of a customer's revenue metering installation.

It also includes demonstrating detailed knowledge of the individual's role and responsibilities as the onsite representative of the metering provider.

The application of the skills and knowledge described in this unit requires a licence/registration to practice in the workplace subject to regulations for undertaking of electrical work.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE104A Solve problems in d.c. circuits

UEENEEE105A Fix and secure electrotechnology equipment

UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

UEENEEG006A Solve problems in single and three phase low voltage machines

UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits

UEENEEG063A Arrange circuits, control and protection for general electrical installations

UEENEEG076A Install and replace low voltage current transformer metering

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage a.c. circuits

UEENEEG103A Install low voltage wiring and accessories

UEENEEG104A Install appliances, switchgear and associated accessories for low voltage

electrical installations

UEENEEG105A Verify compliance and functionality of low voltage general electrical installations

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits

UEENEEG109A Develop and connect electrical control circuits

UEENEEG171A Install, set up and commission interval metering

UETDREL001 Apply environmental requirements

UETDREL005 Work safely in the vicinity of live electrical apparatus

UETDRTS013 Install and replace high voltage metering and associated equipment

UETDRTS022 Perform current injection testing using phantom load

UETTDREL15 Respond to power systems technical enquiries and requests

Competency Field

Testing

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Plan for the maintaining of compliance with national electricity market metrology practices and procedures

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) practices/procedures and environmental and sustainable energy procedures, which may influence the maintaining of compliance with national electricity market metrology practices and procedures, are reviewed and determined
- 1.2** Purpose of the maintaining of compliance with national electricity market metrology practices and procedures is established after data is analysed and expected outcomes of the work are confirmed with appropriate personnel

- 1.3 Organisational established procedures, policies and specifications for the maintaining compliance with national electricity market metrology practices and procedures are obtained or established with appropriate personnel
 - 1.4 Maintenance of compliance with national electricity market metrology practices and procedures are discussed with/directed to appropriate personnel in order to ascertain the project brief
 - 1.5 Maintenance of compliance with national electricity market metrology practices and procedures parameters are established from organisational established procedures, policies and specifications
 - 1.6 Equipment/tools and personal protective equipment (PPE) are selected based on specified performance criteria and established procedures
 - 1.7 Work roles and tasks are allocated according to requirements and individual competencies
 - 1.8 Work is prioritised and sequenced for the most efficient/effective outcome, completed within an acceptable timeframe, to a quality standard and in accordance with established procedures
 - 1.9 Liaison and communication issues with others/authorised personnel, authorities, clients and customers are resolved and activities coordinated to carry out work
 - 1.10 Risk control measures are identified, prioritised and evaluated against the work schedule
 - 1.11 Relevant internal/external work permits are obtained to coordinate the performance of work according to requirements and/or established procedures
- 2 **Carry out the maintaining of compliance with national electricity market metrology practices and procedures**
 - 2.1 WHS/OHS and sustainable energy principles, functionality and practices to prevent the incidents of accidents and minimise waste are incorporated into the project in accordance with requirements and/or established procedures
 - 2.2 First aid, rescue and other related work procedures are performed according to requirements and/or established procedures

- 2.3 Lifting, climbing, and use of power tools/equipment, techniques and practices are safely exercised according to requirements
 - 2.4 Hazard warnings and safety signs are recognised and hazards and assessed WHS/OHS risks are reported to the immediate authorised personnel for directions according to established procedures
 - 2.5 Remedial actions are taken to overcome any shortfalls encountered in the work schedule according to requirements and/or established procedures
 - 2.6 Testing equipment is used in accordance with the work schedule and requirements and/or established procedures
 - 2.7 Routine management of compliance issues with national electricity market metrology practices and procedures is carried out in accordance with the work schedule
 - 2.8 Technical advice is given regarding potential hazards, safety risks and control measures so that monitoring and preventative action can be undertaken and/or appropriate authorities consulted, where necessary, in accordance with requirements and established procedures
 - 2.9 Essential knowledge and associated skills are applied in the maintaining of compliance with national electricity market metrology practices and procedures to ensure completion in an agreed timeframe according to requirements
 - 2.10 Solutions to non-routine problems are identified and actioned, using essential knowledge and associated skills, according to requirements
 - 2.11 Quality of work is monitored against personal performance agreement and/or established organisational and professional standards
- 3 Complete the maintaining of compliance with national electricity market metrology practices and procedures**
- 3.1 Final compliance inspections with the maintenance of compliance with national electricity market metrology practices and procedures are undertaken to ensure they conform to all requirements and include all specifications and documents needed to complete the project
 - 3.2 Appropriate personnel are notified of completion and reports and/or completion documents are

finalised/commissioned according to established procedures and timeframes

- 3.3** Reports and/or completion documents are submitted to relevant personnel/organisations for approval and, where applicable, statutory or regulatory approval
- 3.4** Approved copies of routine testing and acceptance testing procedures/activities/results, for the maintaining of compliance with national electricity market metrology practices and procedures, documents are issued and records are updated in accordance with established procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRTS39 Maintain compliance with national electricity market metrology practices and procedures.

Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>

Assessment Requirements for UETDRTS016 Maintain compliance with national electricity market metrology practices and procedures

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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 following activity:
 - maintaining the compliance of a customer's revenue metering installation with the metrology practices and procedures of the national electricity market
- demonstrating, on at least one (1) occasion, the following activity:
 - the ability to locate, interpret and apply national electricity market rules
- 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:

- navigation of the internet to ascertain current technical and procedural standards applicable to meter provision within the regulated energy market
- interpreting and applying current technical and procedural standards applicable to meter provision within the regulated energy market
- maintaining customer and metering documentation in accordance with enterprise and regulatory requirements applicable to meter service provision in the regulated energy market
- processes and procedures applicable
- identifying and managing risks to compliance
- duties and obligations of market participants
- timeframes applicable to metering
- legal obligations of market and non-market participants
- other relevant legislations, WHS/OHS and trade practices act
- exemption procedures and data substitution procedures

- categories and types of metering installations
- accuracy class for types 1-7
- customer negotiations skills
- ISO 9001:2015 Quality Management System accreditation, ISO 14001:2015 Environmental Management Systems
- auditing course
- service level requirements
- meter asset management plan
- penalties for non-compliance
- interrogating and interpreting meter register, type of site, installation date, overall accuracy and ratios.

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.

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