



Australian Government

UETDRTS002 Commission 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.

Application

This unit covers the commissioning of energy/revenue metering schemes. This includes isolation, inspection, monitoring, testing, adjustment, repair, refurbishment and/or overhaul and functional checks of revenue metering schemes. It includes the requirements to prove the functionality of the metering scheme in accordance with electrical installation (state and national) standards, metrology procedures and compliance to tariff requirements.

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

UETDRTS012 Install and replace complex energy/revenue metering schemes and associated equipment

UETDRTS013 Install and replace high voltage metering and associated equipment

UETDRTS016 Maintain compliance with national electricity market metrology practices and procedures

UETDRTS020 Management of energy registration data errors for revenue billing purposes

UETDRTS022 Perform current injection testing using phantom load

UETDRTS024 Test and maintain energy/revenue metering schemes

UETDREL15 Respond to power systems technical enquiries and requests

Competency Field

Testing

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for the commissioning of energy/revenue metering schemes

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) practices/procedures and environmental and sustainable energy procedures, which may influence the commissioning of energy/revenue metering schemes,

are reviewed and determined

- 1.2 Purpose of the commissioning of energy/revenue metering schemes 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 commissioning of energy/revenue metering schemes are obtained or established with appropriate personnel
- 1.4 Commissioning of energy/revenue metering schemes procedures are discussed with/directed to appropriate personnel in order to ascertain the project brief
- 1.5 Commissioning 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 commissioning of energy/revenue metering schemes

- 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 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 Commissioning of energy/revenue metering schemes 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 safe commissioning of revenue metering schemes 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 commissioning of energy/revenue metering schemes**
- 3.1 Final inspections of the commissioning of energy/revenue metering schemes using routine tests and acceptance tests are undertaken to ensure they comply with all requirements and include all specifications and documents needed to complete the project
 - 3.2 Appropriate internal/external 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 commissioning of energy/revenue metering schemes, documents are issued and records 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 UETTDRTS43 Commission energy/revenue metering schemes.

Links

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