



Australian Government

UETTD RIS67 Solve problems in energy supply network equipment

Release: 1

UETTDRI67 Solve problems in energy supply network equipment

Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package.

Application

This unit involves the skills and knowledge required to solve problems in energy supply network equipment in the electricity supply industry (ESI).

It includes determining correct operation of energy supply network electrical equipment and providing solutions. It also includes working safely, reading circuit and reticulation diagrams, applying problem solving processes from measurements and completing the necessary documentation.

The application of the skills and knowledge described in this unit may require a licence to practice in the workplace.

Other conditions may apply under State and Territory legislative and regulatory licensing requirement which must be confirmed prior to commencing this unit.

Pre-requisite Unit

Common Unit Group

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

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage a.c. circuits

UEENEEG006A Solve problems in single and three phase low voltage machines

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare to solve problems in energy supply network equipment

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) procedures for a given work area are identified, obtained and understood
- 1.2** Extent of work to be undertaken is determined from reports and/or discussions with relevant person/s
- 1.3** Advice is sought from the work supervisor to ensure the work is coordinated effectively with others
- 1.4** Materials required for work are determined in accordance with workplace procedures
- 1.5** Tools, equipment and testing devices required to take measurements are obtained in accordance with workplace procedures and checked for correct operation and safety

2 Solve problems in energy supply network equipment

- 2.1** WHS/OHS risk control measures and procedures for carrying out the work are followed
- 2.2** The need to test or measure live work is determined in accordance with WHS/OHS requirements and, when necessary, conducted in accordance with workplace safety procedures
- 2.3** Circuits/machines/plant are isolated, where necessary, in accordance with WHS/OHS requirements and workplace procedures
- 2.4** Safety hazards resulting from reports and risk control measures devised and implemented in consultation with appropriate personnel
- 2.5** Problem solving of energy network equipment is approached methodically using measured and calculated

values of circuit/apparatus parameters

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| 2.6 | Circuit/apparatus components are dismantled, where necessary, and parts stored to protect them against loss or damage |
| 2.7 | Circuits/components are rechecked and their operational status is confirmed |
| 2.8 | Materials/replacement parts required to solve problems are sourced and obtained in accordance with workplace procedures |
| 2.9 | Effectiveness of the repair is tested in accordance with workplace procedures |
| 2.10 | Apparatus is reassembled, tested and prepared for return to service |
| 2.11 | Unplanned events are dealt with safely and with the approval of relevant personnel |
| 2.12 | Problem-solving activities are completed without damage to apparatus, circuits, the surrounding environment or services applying sustainable energy practices |
| 3 Complete and report on problem solving in energy supply network equipment | 3.1 WHS/OHS work completion risk control measures and procedures are followed |
| | 3.2 Reusable, faulty or worn components are tagged and dispatched for repair to maintain adequate spares |
| | 3.3 Maintenance work activities are documented in accordance with workplace 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRI67A Solve problems in energy supply network equipment.

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>