



Australian Government

UETTD RIS72 Diagnose and rectify faults in distributed generation systems

Release: 1

UETTDRIS72 Diagnose and rectify faults in distributed generation systems

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 covers diagnosing and rectifying faults in distributed generation systems. The unit encompasses applying safe working practices; interpreting diagrams and technical data; applying knowledge of energy supply and reticulation systems to logical fault-finding processes; implementing fault rectification, safety and functional testing; and reporting work activities and outcomes.

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 licencing requirements 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

UETTDRIS67 Solve problems in energy supply network equipment

UETTDRIS68 Solve problems in energy supply network protection equipment and systems

UETTDRIS69 Diagnose and rectify faults in energy supply apparatus

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to diagnose and rectify faults

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) procedures for a given work area are identified, obtained and understood
 - 1.2** Established WHS/OHS risk control measures and procedures in preparation for the work are followed
 - 1.3** Safety hazards which have not previously been identified are documented and risk control measures devised and implemented in consultation with appropriate personnel
 - 1.4** The extent of faults is determined from reports and other documentation and from discussions with appropriate personnel
 - 1.5** Appropriate personnel are consulted to ensure the work is coordinated effectively with others involved on the worksite
 - 1.6** Tools, equipment and testing devices needed to diagnose faults are obtained in accordance with established procedures and checked for correct operation and safety
- 2 Diagnose and rectify faults**
- 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 strict accordance with WHS/OHS requirements and, when necessary, conducted within established safety procedures
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| | 2.3 | Circuits/machines/plant are checked as being isolated, where necessary, in strict accordance WHS/OHS requirements and procedures |
| | 2.4 | Logical diagnostic methods are applied to diagnose distributed generation system faults employing measurements and estimations of system operating parameters referenced to system operational requirements |
| | 2.5 | Suspected fault scenarios are tested as being the source of system problems |
| | 2.6 | Causes of faults are identified and appropriately competent persons are engaged to rectify the fault where it is outside the scope of the control system |
| | 2.7 | Faults in the system components are rectified to raise distributed generation system to its operation standard |
| | 2.8 | System is tested to verify that it operates as intended and to specified requirements |
| | 2.9 | Decisions for dealing with unexpected situations are made from discussions with appropriate personnel and job specifications and requirements |
| | 2.10 | Methods for dealing with unexpected situations are selected on the basis of safety and specified work outcomes |
| | 2.11 | Diagnosis and rectification activities are carried out efficiently without unnecessary waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices |
| 3 | Complete and report fault diagnosis and rectification activities | |
| | 3.1 | WHS/OHS work completion risk control measures and procedures are followed |
| | 3.2 | Worksite is made safe in accordance with established safety procedures |
| | 3.3 | Rectification of faults is documented in accordance with established procedures |
| | 3.4 | Appropriate person/s is notified in accordance with established procedures that the system faults have been rectified |
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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 UETTDRI572A Diagnose and rectify faults in distributed generation systems.

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>
