



Australian Government

UETDRDS027 Investigate quality of supply issues

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 4.0.

Application

This unit includes the skills and knowledge required to investigate quality of supply issues in the electricity supply industry (ESI).

It includes common power quality issues, including electromagnetic interference, voltage irregularities, unbalanced loads, harmonics, and power factor.

It also includes testing and field equipment, including types, construction and function, calibration, care and maintenance, and measurement of power quality parameters.

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

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

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEEEL0020 Solve problems in low voltage a.c. circuits

UEEEL0021 Solve problems in magnetic and electromagnetic devices

UETDREL005 Work safely in the vicinity of live electrical apparatus

Competency Field

Design

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to investigate quality of supply issues

PERFORMANCE CRITERIA

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

- 1.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be done are reviewed and determined
- 1.2 Purpose of the investigation is established and expected outcomes of the work are confirmed with appropriate personnel
- 1.3 Requirements for site inspections are determined in accordance with workplace requirements
- 1.4 Work plan is determined in accordance with workplace requirements, and where relevant, communicated to the appropriate personnel
- 1.5 Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.6 Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.7 Hazards are identified, risks assessed, and control measures identified and applied
- 1.8 Work permits are identified in accordance with workplace requirements
- 1.9 Liaison and communication issues with authorised personnel, authorities and clients are resolved to perform work, as required
- 1.10 Worksite is prepared in accordance with the work plan and workplace requirements

2 Investigate quality of supply issues

- 2.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2 Quality of supply issues are investigated in accordance with workplace requirements
- 2.3 Incidents or unplanned events are responded to in

accordance with workplace requirements

2.4 Quality checks of work are undertaken in accordance with work plan and workplace requirements

3 Complete work and documentation

3.1 Completed work is checked for compliance against the work plan and workplace requirements

3.2 Work records, reports and documentation are completed, and where relevant, appropriate personnel notified in accordance with workplace requirements

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 not equivalent to UETDRDS012 Investigate quality of power systems supply issues.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>