



Australian Government

UETDRIS027 Diagnose and resolve faults in transmission systems

Release: 1

UETDRIS027 Diagnose and resolve faults in transmission 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 Release 4.0.

Application

This unit includes the skills and knowledge required to diagnose and resolve faults in transmission systems in the electricity supply industry (ESI).

It includes interpreting diagrams and technical data, applying knowledge of energy supply and transmission systems to logical fault-finding and resolution.

It also includes transmission primary, secondary and communication systems, functional testing, and reporting work activities and outcomes.

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

Other conditions may also 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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

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

UETDRIS026 Diagnose and resolve faults in electrical apparatus

UETDRIS032 Solve problems in network equipment

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 diagnose and resolve faults in transmission systems

- 1.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be done are reviewed and determined
- 1.2** Work plan is developed and confirmed, permissions obtained, and these are communicated with relevant personnel in accordance with workplace requirements
- 1.3** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.4** Hazards are identified, risks assessed, and control measures identified and applied
- 1.5** Work permits are determined in accordance with workplace requirements
- 1.6** Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order

2 Diagnose and resolve faults in transmission systems

- 2.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Lifting, working at heights, working in confined spaces and the use of plant, tools, equipment and PPE are carried out in accordance with workplace requirements
- 2.3** Work permits are received and signed in accordance with workplace requirements
- 2.4** Faults in transmission systems are diagnosed and

		resolved in accordance with workplace requirements
	2.5	Hazard control measures are monitored in accordance with workplace requirements
	2.6	Incidents or unplanned events are responded to in accordance with workplace requirements
3	Complete work and documentation	
	3.1	Completed work is checked for compliance against the work plan and workplace requirements
	3.2	Incidents or unplanned events are reported in accordance with workplace requirements
	3.3	Plant, tools and equipment are cleaned, checked and returned to storage, and surplus resources and materials are managed in accordance with workplace requirements
	3.4	Work permits are signed off in accordance with workplace requirements
	3.5	Work records, reports and documentation are completed, and 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is not equivalent to UETTDRIS71 Diagnose and rectify faults in electrical energy supply transmission systems.

Links

Companion Volume Implementation Guides are found in VETNet -

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