



**Australian Government**

# **UETDRTS039 Perform current injection testing of secondary devices**

**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 perform current injection testing of secondary devices in the electricity supply industry (ESI).

It includes the testing of secondary devices using current injection testing to determine correct function of secondary circuits, while ensuring testing is conducted in accordance with workplace requirements. It also includes the validation of secondary wiring circuits to determine the correct operation of the scheme.

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**

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

## **Competency Field**

Testing

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### **1 Prepare to perform current injection testing of secondary devices**

- 1.1** Workplace organisational requirements for performing current injection testing of secondary devices, are reviewed and determined
- 1.2** Purpose for performing current injection testing of secondary devices is established and tolerances identified
- 1.3** Testing procedures are established in accordance with workplace requirements
- 1.4** Tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.5** Work roles and tasks are allocated according to requirements and individual competencies
- 1.6** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.7** Relevant stakeholders are identified and liaised with
- 1.8** Work permits are determined in accordance with workplace requirements
- 1.9** Hazards are identified, risks assessed, and control measures identified and applied

#### **2 Perform current injection testing of secondary devices**

- 2.1** Organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Lifting, the use of tools, equipment and PPE are carried out in accordance with workplace requirements
- 2.3** Hazard control measures are monitored in accordance with workplace requirements

- |                                          |     |                                                                                                       |
|------------------------------------------|-----|-------------------------------------------------------------------------------------------------------|
|                                          | 2.4 | Incidents or unplanned events are responded to in accordance with workplace requirements              |
|                                          | 2.5 | Current injection testing of secondary devices is performed in accordance with workplace requirements |
|                                          | 2.6 | Quality checks of work are undertaken in accordance with work plan and workplace requirements         |
| <b>3 Complete work and documentation</b> | 3.1 | Completed work is checked for compliance against the work plan and workplace requirements             |
|                                          | 3.2 | Work records, reports and documentation are completed 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 UETDRTS022 Perform current injection testing using phantom load.

## Links

Companion Volume Implementation Guides are found in VETNet -

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