



Australian Government

UETDRSO017 Develop and validate transmission switching programs

Release: 1

UETDRSO017 Develop and validate transmission switching programs

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 develop and validate transmission switching programs, in the electricity supply industry (ESI).

It includes types, characteristics and capabilities of electrical apparatus, sources of possible back-feed, extra high voltage (EHV) isolation and earthing procedures, and operating agreements.

It also includes establishing the purpose of the EHV switching program, procedures for analysing data, and writing a switching program.

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

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

Competency Field

System Operations

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 develop and validate transmission switching programs

- 1.1** Purpose for the transmission switching program is established in accordance with workplace requirements
- 1.2** Data is analysed and expected work outcomes are determined
- 1.3** Hazards are identified, risks assessed, and control measures identified and applied
- 1.4** Work plan is developed, validated and communicated with stakeholders in accordance with workplace requirements
- 1.5** Equipment required for work is determined in accordance with work plan and workplace requirements
- 1.6** Work permits are determined in accordance with workplace requirements
- 1.7** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.8** Operational personnel requirements are determined in accordance with workplace requirements
- 1.9** Liaison and communication issues with stakeholders are resolved

2 Develop and validate transmission switching programs

- 2.1** Available resources are used to determine best outcomes, in accordance with workplace requirements
- 2.2** Transmission switching programs are developed and validated in accordance with workplace requirements
- 2.3** Work plan is checked for compliance against technical advice, legislation, regulations, standards and codes of practice
- 2.4** Health and safety risks are identified and minimised or eliminated by using safety and control measures

- | | | |
|--|-----|---|
| | 2.5 | Ongoing 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 UETDRSO004 Develop and evaluate power systems transmission switching programs.

Links

Companion Volume Implementation Guides are found in VETNet -

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