



Australian Government

UEECD0041 Solve electrotechnical engineering problems

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to solve electrotechnical engineering problems.

It includes working safely, applying problem-solving techniques, using a range of mathematical processes and techniques to provide solutions to electrotechnical problems, and documenting solutions.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Cross Discipline

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Provide calculated solutions to electrotechnical engineering problems

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) requirements and workplace procedures for a given work area are obtained and applied
- 1.2** Scope of the problems are obtained from documentation and/or from work supervisor to determine work to be

	undertaken
	1.3 Problems are stated in writing and/or diagrammatic form to ensure they are identified, and relevant methods used to resolve them 1.4 Constants and variables related to the problem are obtained from measured values and/or problem documentation 1.5 Alternative methods for resolving the problem are considered and, as required, discussed with relevant person/s 1.6 Problems are solved using relevant mathematical processes and techniques within relevant industry standards
2 Complete work and document calculated solutions to electrotechnical activities	2.1 Justification for solutions used to solve electrotechnical engineering problems is documented in work/project development records in accordance with relevant industry standards 2.2 Work completion is documented and relevant person/s notified

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 UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE129A Solve electrotechnical engineering problems.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>