



Australian Government

**Assessment Requirements for UEECD0038
Provide solutions and report on routine
electrotechnology 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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- completing work and reporting on calculated solutions, including:
 - using standard reporting structures and forms to prepare and produce documents/technical reports
 - interpreting and communicating solutions in documents/technical reports to appropriate person/s in accordance with workplace procedures
- performing calculations to solve electrotechnology problems, including:
 - identifying problems in written and diagrammatic form
 - obtaining known constants and variables from an appropriate source to solve problems
 - solving problems using appropriate fundamental calculations to achieve realistic and accurate outcomes.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- electrotechnology numeracy, including:
 - decimals
 - fractions and indices
 - percentages
 - graphs
 - multiples and sub-multiples
 - ratios and proportions
 - transposition
 - areas and volumes
 - trigonometry and Pythagoras' Theorem
 - construction of angles and triangles

- transposition of equations
- conversion of units of measurement
- electrotechnology literacy, including:
 - reading comprehension
 - spelling
 - sentence construction (syntax)
 - grammar.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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