

Australian Government

# **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.

# Application

This unit involves the skills and knowledge required to provide solutions and report on electrotechnology problems.

It includes performing relevant numerical calculations to identify workplace electrotechnology problems, applying relevant problem-solving techniques, using a range of fundamental mathematical processes and techniques to resolve problems and documenting the solution/s.

Typical electrotechnology problems are those encountered in meeting routine performance requirements and compliance with industry standards, interpreting the operating parameters of equipment and dealing with equipment malfunctions. Typical reports are those based on routine structures and formats and require the application of routine communication fundamentals.

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 PERFORMANCE CRITERIA

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

**1** Perform fundamental 1.1 Work health and safety (WHS)/occupational health and numerical safety (OHS) procedures for a given work area are identified, obtained and applied electrotechnology calculations 1.2 Nature of the problem is identified from documentation or work supervisor to determine scope of work to be undertaken 1.3 Problems are accurately documented in written and/or diagrammatic form to ensure issues are explicit and appropriate problem-solving methods used to resolve matter/s 1.4 Constants and variables related to electrotechnology problem are identified from measured values or relevant documentation 1.5 Methods for resolving electrotechnology problems are considered and discussed with appropriate person/s 1.6 Electrotechnology problems are resolved using relevant numerical calculations with result outcome in accordance with relevant industry standards 1.7 Solutions to electrotechnology problems are documented in accordance with workplace procedures 2.1 2 Complete work Solutions used to solve workplace electrotechnology calculations and report on problems are recorded for inclusion in work/project solutions and/or records/technical reports in accordance with workplace procedures 2.2 Reporting requirements and structures are identified and used to prepare technical reports to communicate the calculated resolution to appropriate person/s 2.3 Reports are produced to communicate the calculated solutions in accordance with workplace procedures 2.4 Work completion is documented and appropriate

# Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

person/s notified

## **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.

Solving routine electrotechnology problems must include:

electrotechnology problems must be conducted

in relation to any of the following disciplines:

- numerical calculations relevant to equipment processes in the deployment of work functions
- reporting their outcomes in accordance with industry requirements
- computers
- data communications
- electrical
- electronics
- instrumentation
- refrigeration and air conditioning

#### **Unit Mapping Information**

Demonstration of solving routine

This unit replaces and is equivalent to UEENEEE130A Provide solutions and report on routine electrotechnology problems.

#### Links

Companion Volume implementation guides are found in VETNet -https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6