



Australian Government

**UEECD0040 Solve basic problems
electronic and digital equipment and
circuits**

Release: 1

UEECD0040 Solve basic problems electronic and digital equipment and circuits

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 basic problems electronic and digital equipment and circuits and circuits.

It includes working safely, applying problem-solving procedures, using measuring devices, providing solutions derived from equipment behaviour and measurements, and completing documentation.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and

UEECD0043 Solve problems in direct current circuits

or

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

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

outcomes.

demonstrate achievement of the element.

1 Prepare to work on electronic and digital equipment

- 1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and applied
- 1.2 WHS/OHS risk control work preparation measures and workplace procedures are followed
- 1.3 Scope of problem is obtained from documentation and/or work supervisor to determine the work to be undertaken
- 1.4 Advice is sought from work supervisor to ensure the work is coordinated effectively with others
- 1.5 Sources of materials required for work are identified and accessed in accordance with workplace procedures
- 1.6 Tools, equipment and testing devices required to carry out work are obtained and checked for correct operation and safety

2 Solve electronic and digital equipment problems

- 2.1 WHS/OHS risk control work measures and workplace procedures are followed
- 2.2 Need to test and measure live work is determined in accordance with WHS/OHS requirements and workplace procedures
- 2.3 Circuits are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.4 Methods are used to solve electronic and digital equipment problems from observation or equipment behaviour and measured values
- 2.5 Unplanned situations are dealt with safely and with the approval of relevant person/s
- 2.6 Problems are solved without damage to apparatus, circuits, the surrounding environment or services using sustainable energy practices

3 Complete work and document problem-solving activities

- 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed

- 3.2 Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3 Justification for solutions used to solve circuit problems is documented
- 3.4 Work completion is documented and relevant person/s notified in accordance with workplace procedures

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 UEENEEE123A Solve basic problems electronic and digital equipment and circuits.

Links

Companion Volume implementation guides are found in VETNet - -

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