

1. Module details**Module name****Projects for Electrotech Vocations****Module duration**

It is expected that students with the appropriate entry knowledge and skills will successfully complete this module in 36 - 40 hours.

Module code

NUE071

Discipline code

0703110

2. Module purpose

This module will allow the student to demonstrate the skills and knowledge in the form of a project/s which relates to the particular specialisation and/or optional unit undertaken.

3. Prerequisites**4. Relationship to competency standards**

This module provides part of the underpinning knowledge and skills in the 'Evidence Guide' of specific units of competency in the National Electrotechnology Training Package and provides similar support, where mapped, to equivalent units in the National Metals and Engineering Competency Standards. For details refer to the module to unit maps, available from NUEITAB.

5. Content**1. Project Planning**

- research
- aims and objectives of the project
- application of project in the Electrotechnology industry

2. Reporting/Documentation

- written
- drawings/sketches

3. Project Building

- material requirement
- assembly
- final testing

4. Presentation

- overview of project
- aims/objectives
- operating principles
- conclusion

6. Assessment strategy

Assessment methods

Assessment should be progressive reflecting a holistic approach to ensure the module purpose is met. To assist in ensuring validity, reliability and fairness assessment instruments should include practical exercises, assignments and written tests consisting of a number of item types, such as multiple choice, short answer and problem solving.

Conditions of assessment

Learning and assessment will take place in an environment that is conducive to a learner's development.

7. Learning outcome details**Learning outcome 1****Describe the overall design and concepts of the project in relationship with the Electrotechnology Industry****Assessment criteria**

- 1.1 Discuss project design and concepts with teacher.
- 1.2 Carry out research using reference books, internet, interviews, manufacturer's information.
- 1.3 State aim and objectives of the project.
- 1.4 List applications of the project in the electrotechnology industry.

Learning outcome 2**Prepare project documentation and reports****Assessment criteria**

- 2.1 Prepare overall project report.
- 2.2 List project aim and objectives.
- 2.3 State the procedure for the manufacture of the project.
- 2.4 Prepare drawing sketches for project.
- 2.5 State final testing procedure for project to meet project aim and objectives.

Learning outcome 3**Carry out project manufacture****Assessment criteria**

- 3.1 List and acquire the materials necessary to build the project.
- 3.2 Assemble the materials to project brief.
- 3.3 Carry out final testing of project.

Learning outcome 4**Prepare oral presentation for the project to peer/industry/community groups****Assessment criteria**

- 4.1 State the overview of the project to group
- 4.2 State the aim and objectives of the project.
- 4.3 Explain operating principles of the project.
- 4.4 Provide information in ordered sequence.

8. Delivery of the module

Delivery strategy

Delivery strategies must be suitable for learning both theoretical and practical aspects described in the module purpose. It is considered that the most effective method to achieve this is by integration of theory and practice where students learn by experimentation, research and reports. It is recommended that learning and assessment be facilitated in a holistic manner that may require learning outcome sequence other than that indicated in the module.

Resource requirements

Resources should be sufficient for students to carry out learning activities on an individual basis.

Suggested Learning Resource:

Occupational health and safety requirements

A safe and healthy environment will be provided for students and teachers as well as the particular safety procedures followed as part of the learning / teaching activity and content.