

**25.2.0 TRADE PROJECT**

**25.2.01 Introduction**

This module is designed to equip the trainee with the necessary knowledge, skills and attitude required to understand the process of undertaking a project including the construction and production of a viable electronic equipment.

**25.2.02 General Objectives**

By the end of this module unit, the trainee should be able to:

- a) develop hands on experience on project work
- b) implement knowledge gathered during course work
- c) acquire experience in technical report writing
- d) develop the concept of record keeping
- e) interpret technical drawings

**25.2.03 Module Summary and Time Allocation**

**Trade Project**

<b>Code</b>	<b>Module Unit</b>	<b>Content</b>	<b>Time Hrs</b>
25.2.1	Sources Of Information And Its Application	<ul style="list-style-type: none"> <li>• Catalogs</li> <li>• Data books</li> <li>• Internet</li> <li>• Text books</li> <li>• Manuals</li> <li>• Magazines</li> <li>• Workshops</li> </ul>	10
25.2.2	Construction And Project Report Writing	<ul style="list-style-type: none"> <li>• Project selection</li> <li>• Assembly</li> <li>• Report writing</li> <li>• Presentation</li> </ul>	40
<b>Total Time</b>			<b>50</b>

**25.2.1 SOURCES OF INFORMATION AND ITS APPLICATION**

*Theory*

25.2.1T0 *Specific Objectives*

By the end of the sub module unit, the trainee should be able to identify sources of information

*Content*

25.2.1T1 Sources of information

- i) Catalogs
- ii) Data books
- iii) Internet
- iv) Textbooks
- v) Manuals
- vi) Magazines
- vii) Workshops
- viii) Consultation

**25.2.2 CONSTRUCTION AND PROJECT REPORT WRITING**

25.2.2T0 *Specific Objectives*

By the end of the sub module unit, the trainee should be able to write a trade project report

*Competence*

The trainee should have the ability to:

- i) Choose correct components, tools and materials
- ii) Safely and correctly assemble the circuit onto a circuit board
- iii) Encase and test the assembled circuit
- iv) Maintain quality on finished job
- v) Estimate materials and cost for a job
- vi) Apply ethics and integrity at work

*Content*

25.2.2T 1 Project selection

- i) Assembly
- ii) Report writing
- iii) Presentation

*Practice*

25.2.2P0 *Specific Objectives*

By the end of the unit, the trainee should be able to:

- a) choose appropriate electrical/electronic components
- b) simulate the circuit on a computer
- c) observe safety when handling and mounting components
- d) construct a functional

- electrical/electronic device or equipment
- e) perform tests at various stages of the circuit
- f) encase the assembled project
- g) perform final test on the encased project
- h) present a project for award of grade

*Content*

- 25.2.2P1 Components identification
- 25.2.2P 2 Circuit simulation
- 25.2.2P3 Safety
- 25.2.2P4 Circuit construction
- 25.2.2P5 Prototype testing

- 25.2.2P6 Project casing
- 25.2.2P7 Final test
- 25.2.2P8 Presentation

*Suggested Learning*

*Resources*

- i) Assorted components
- ii) Test instruments
- iii) Computers
- iv) Circuit diagrams
- v) Assembly diagrams
- vi) Electronic toolkit
- vii) Circuit boards
- viii) Connecting wires
- ix) Connecting wires
- x) Solder wires
- xi) marking and cutting tools