WORKSHOP TECHNOLOGY II (ELECTRICAL)

Introduction

21.2.1

21.2.2

This module unit covers the following areas: safety regulations, hand tools and equipment, machine tools, diesel and petrol engines and water pumps. It is designed to equip the trainee with: knowledge, skills and attitudes that enable him/her to perform basic workshop tasks.

General Objectives

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

- a) understand safety regulations in the workshop
- b) identify tools to be used in a conventional workshop
- c) understand the operations of petrol and diesel engines as well as pumps
- d) understand fundamentals of electrical installation
- e) understand fundamentals of building trades

21.2.03 Module Unit Summary and Time Allocation – (33 Hours)

ode Sub-Module	Content	Hours 33
Units 21.2.1 Electrical Installation	Sources of electrical power supply Safe methods of electrical power supply I.E.E. regulations on electrical installation Total	

INSTALLATION		
	120	a) select suitable
Theory		source of elections and safety
21.2.01TO Specific Cl.		
- Fellic (This and		b) safely apply to electrical co
By the end of the sub-		to electrical of interpret electrical of circumstates
module unit, the trainee should be able to:		Circulated electric
oc anie io:		d) select
acaci loc the some		d) select electrical materials
of electrical power supply		estimat.
b) explain the sac-		e) estimate election
b) explain the safe methods of		1) prepare
Supplaine 1		materials for
supplying electrical		- 10(d)(3)(a
power to electrical		O/ 1d V Cond
c) discuss the I.E.E		A WALLEY TO A STATE OF THE STAT
regulation		
regulations on electrical		regulations
		CICCINCA
installation		installations
21.2.01C Competence	21.0.0.	Content
The trainee should have	21.2.01P1	Sources of electrical
the ability to safely	21.2.0100	power supply
supply electrical power	21.2.01P2	Electrical powers
to an electrical circuit	21.2.01P3	Interpretation of
to an electrical electric	21.2.017.4	electrical drawings
Content	21.2.01P4	Selection of electric
		materials
21.2.01T1 Sources of electrical	21.2.01P5	Material estimation
power supply	21.2.01P6	Material preparators
21.2.01T2 Safe methods of		fabrication
electrical power supply	21.2.01P7	Application of LEE
21.2.01T3 I.E.E regulations on		regulations on electric
electrical installation		installations
	21.2.01P8	Use material
Practice		appropriately
		a and
21.2 01P0 Specific Objectives		Suggested
By the end of the sub-		Teaching/Learning
module unit, the trainee		Methods
should be able to:		- Demonstrations - Practical exercise
CONTRACTOR OF THE STATE OF THE		- Practical case

Field trips

Suggested Teaching/Learning Resources

- Working drawings
- Text books
- Tools
- I.E.E regulations book

Suggested Assessment Methods

- Practical exercises
- Practical tests

Tools and Equipment

- Generators
- Transformers
- Solar panels
- Petrol engines
- Diesel engines
- Pumps
- Pliers
- Spanners
- Testing wires
- Insulating tapes
- Screw drivers
- Spirit levels
- Ball pein hammer
- Hacksaw
- Pipe wrench
- Stock and die
- Cold and hot chisel