MATHIOYA TECHNICAL & VOCATIONAL COLLEGE MECHANICAL&AUTOMOTIVE ENGINEERING

FOR ALL TRAINEES UNDERTAKING AUTOMOTIVE TECHNICIAN FULL COURSE LEVEL 4, LEVEL 5 AND LEVEL 6

DRAWING EQUIPMENT

- 1. Drawing Board or MDF (60cm By 50cm)
- 2. T-Square (1M Long)
- 3. Set Square (60 & 45) plastic
- 4. Drawing Set
- 5. 1 Roll of Masking Tape
- 6. Drawing papers 1 Ream or drawing book, and Pencils HB, H, 2H 3H, Eraser's
- 7. A4 200 Pages exercise books (Depends on no. of units per level)
- 8. Scientific Calculator
- 9. SMP Mathematics Table for college (for craft certificate and diploma only)
- 10. Overall/ Dust-Coat Navy Blue
- 11. Industrial boots/safety boots

SHORT COURSES TOPICS AND MATERIAL

	AUTOMOTIVE SHORT COURSES										
COURSES	ELECTRONIC MECHANICS	GAS WELDER	LIGHT VEHICLE MECHANICS	PANEL BEATER	SPRAY PAINTER	ARC WELDER	MOTOR BIKE MECHANICS				
	Workshop and personal Safety Introduction to automobile Charging system Starting system Electronic fuel injection system Lighting system Vehicle electrical auxiliary system	 Workshop and personal Safety Introduction to gas welding Types of gas welding Tools and equipment used Gas welding techniques Gas cutting tools 	Workshop and personal Safety Introduction to automobile Vehicle layout Types of engines Transmission systems Suspension system Steering system Braking system Wheels and tires Cooling system	Workshop and personal Safety Introduction to panel beating Tools and equipment Chassis and body defects Panel beating procedures. Filler application and sanding Materials handling and waste disposal.	 Workshop and personal Safety Introduction to spray painting Types of paints and thinners Types of painting guns Methods of surface preparations Spray paintings sequences Quality control and waste disposal 	Workshop and personal Safety Types of arc welding machines Arc welding joints Arc welding techniques Arc welding sechniques Safety	Workshop Safety Introduction to motor cycle Types of motor cycle engines Maintenance of motor cycle Cyclist familiarization Personal protective gear.				

AUTOMOTIVE SHORT COURSE MATERIALS											
COURSES	ELECTRONIC MECHANICS	GAS WELDER	LIGHT VEHICLE	PANEL BEATER	SPRAY PAINTER	ARC WELDER	MOTOR BIKE				
TOPICS			MECHANICS				MECHANICS				
1.	Dust coat/ overall	Dust coat/ overall	Dust coat/ overall	Dust coat/ overall	Dust coat/ overall	Dust coat/ overall	Dust coat/ overall				
2.	Safety boots	Safety boots	Safety boots	Safety boots	Safety boots	Safety boots	Safety boots				
3.	Tester	Gas welding	Assorted spanners	Clear googles	Clear googles	welding googles	Assorted spanners				
		googles									
4.	Multi-meter	Leather apron		A packet of latex	A packet of latex	Leather apron	Screw drivers				
				gloves	gloves						
5.	Screw drivers			Dust masks	Dust masks						
6.	Assorted spanners			Assorted spanners	Assorted spanners						
7.	Insulating tapes			Screw drivers	Screw drivers						