



**BARBADOS
VOCATIONAL
TRAINING
BOARD**

**SKILLS TRAINING PROGRAMME
in**



AUTO MECHANICS

BARBADOS VOCATIONAL TRAINING BOARD
“Lawrence Green House”
Culloden Road
St. Michael
436-7970

Auto Mechanics

The **Domestic Cars and Light Trucks Operating Systems Diagnosis, Tuning, Servicing and Repairs** course will equip graduates with the skills, knowledge and attitudes needed to function in the automotive industry as auto vehicle system service persons and repairers. They will specialize in the diagnosis, troubleshooting, servicing, and overhauling of engine, cooling, fuel and emissions, ignition, charging, starting, electrical/electronic, drive line, brakes, steering and suspension operating systems fitted to domestic motor cars and light trucks equipped with gasoline and diesel fuel systems, respectively.

The programme is nine (9) months in duration.

Persons admitted to the programme will receive practical training consisting of:

A) Troubleshooting, servicing and repairing domestic cars and light trucks:

- engine cooling and exhaust system problems
- braking system problems
- suspension and steering system problems
- charging and starting system problems
- engine system problems
- differential, driveshaft and drive axle system problems
- manual transmission, transaxle and transfer case system problems
- ignition system problems
- fuel system problems
- engine management and emissions system problems

B) Tuning-up domestic car and light truck engines

On completion of training, the trainee will be able to:

- Diagnose problems occurring in specific operating systems of domestic cars and light trucks equipped with gasoline and diesel fuel systems, and modern electrical and electronic assisted operating systems,
- Service or repair problems diagnosed using the practices and specifications recommended and set out by vehicle manufacturers,
- Transfer skills and knowledge learnt, to diagnose, service and repair problems occurring in other makes of light vehicle operating systems

OCCUPATIONAL /SKILLS PROFILE—AUTO MECHANICS

DUTY AM-A200	Identify auto electrical and electronic devices and system components
DUTY AM-A300	Demonstrate knowledge of the operating systems of the domestic gasoline motor vehicle and light duty truck
DUTY AM-A400	Performing basic vehicle servicing functions
DUTY AM-A500	Inspecting and repairing engine cooling and exhaust systems
DUTY AM-A600	Diagnose and repair braking system
DUTY AM-A700	Diagnose and repair steering & suspension systems
DUTY AM-A800	Inspecting and servicing electrical charging and starting systems
DUTY AM-A900	Diagnosing and repairing engine (mechanical)
DUTY AM-A1000	Diagnose and repair differentials, drive shafts and drive axles
DUTY AM-A1100	Diagnose and repair manual transmission, transaxle and transfer cases
DUTY AM-A1200	Diagnose and repair automatic transmission/transaxles
DUTY AM-A1300	Diagnose and repair ignition systems
DUTY AM-A1400	Diagnose and repair auxiliary electrical/electronic safety, convenience and comfort systems
DUTY AM-A1500	Diagnose and repair fuel systems
DUTY AM-A1600	Diagnose and repair engine management and emissions control systems
DUTY AM-A1700	Diagnose and repair heating, ventilation and air conditioning systems
DUTY AM-A1800	Diagnose and repair occupant restraint systems