NITEC IN AUTOMOTIVE TECHNOLOGY

MODULE OBJECTIVES

CORE MODULES

Automotive Principles and Systems
On completion of the module, students should be able to observe workplace health and safety, extract technical information, select and use lifting equipment and hand tools to disassemble and reassemble automotive systems and components, check automotive components dimensions and basic electrical readings as well as the proper disposal of automotive wastes.

Basic Chassis and Drivetrain Technology
On completion of the module, students should be able to service and replace automotive drivetrain and chassis components like manual transmission clutch and brakes on a vehicle.

Basic Engine Technology
On completion of the module, students should be able to service engine system components of spark ignition and compression ignition engines on a vehicle.

Autotronic
On completion of the module, students should be able to interpret, measure, diagnose and rectify faults in vehicle electrical systems, electronic circuits and air-conditioning systems on a vehicle.

Engine Technology and Powertrain Management
On completion of the module, students should be able to conduct system fault finding with the use of diagnostic tools & equipment and rectify the system faults in engine electrical, fuel injection pump, lubrication and cooling, engine mechanical, engine management, emission control, forced air induction system on a vehicle.

Chassis and Drivetrain Technology
On completion of the module, students should be able to troubleshoot and rectify faults in automotive chassis and drivetrain systems components.

On-the-Job Training I
On completion of the module, trainees should be able to apply and integrate Year 1 skills and knowledge acquired at ITE College or ITE Approved Training Centre, and further develop competencies at the workplace.

On-the-Job Training II
On completion of the module, trainees should be able to apply and integrate Year 2 skills and knowledge acquired at ITE College or ITE Approved Training Centre, and further develop competencies at the workplace.