

# NITEC IN AUTOMOTIVE TECHNOLOGY

## Core Modules

### Automotive Principles & 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 & 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.

### Autotronics

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 & 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 & Drivetrain Technology

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

### Industry Attachment

On completion of the module, students should be able to apply the skills and knowledge acquired to take on a range of job scope at the company.