

## BTEC National Certificate in Vehicle Technology

The Edexcel Level 3 BTEC National Certificate in Vehicle Technology consists of three core units plus specialist units to the value of 540 GLH.

Unit	Core units	GLH	Level
1	Operation of Vehicle Systems	60	3
2	Vehicle Engine Principles, Operation, Service and Repair	60	3
3	Vehicle Fault Diagnosis and Rectification	60	3
<b>Specialist units - select units to the value 540 GLH</b>			
4	Vehicle Technology Project	120	3
5	Applications of Vehicle Science and Mathematics	60	3
6	Vehicle Electrical and Electronic Principles	60	3
7	Engine Electrical Charging and Starting Systems	60	3
8	Petrol Injection Systems for Spark Ignition Engines	60	3
9	Diesel Fuel Injection Systems for Compression Ignition Engines	60	3
10	Operation and Testing of Vehicle Electronic Ignition Systems	60	3
11	Vehicle Engine Management Systems	60	3
12	Light Vehicle Transmission Systems	60	3
13	Vehicle Electronic Ancillary and Information Systems	60	3
14	Light Vehicle Suspension, Steering and Braking Systems	60	3
15	Heavy Vehicle Braking Systems	60	3
16	Heavy Vehicle Transmission Systems	60	3
17	Heavy Vehicle Steering and Suspension Systems	60	3
18	Mathematics for Technicians	60	3
19	Business Systems for Technicians	60	3
20	Properties and Application of Engineering Materials	60	3
22	Applications of Welding Technology	60	3
25	Essential Working Practices in Vehicle Technology	60	2
34	Vehicle Electrical and Electronic Systems	60	3
35	Applications of New Technologies in Vehicle Design and Operation	60	3

## BTEC National Diploma in Vehicle Technology

The BTEC National Diploma in Vehicle Technology consists of four core units plus thirteen specialist units.

Unit	Core units	GLH	Level
1	Operation of Vehicle Systems	60	3
2	Vehicle Engine Principles, Operation, Service and Repair	60	3
3	Vehicle Fault Diagnosis and Rectification	60	3
4	Vehicle Technology Project	120	3
<b>Specialist units – a minimum of 13 units must be selected</b>			
5	Applications of Vehicle Science and Mathematics	60	3
6	Vehicle Electrical and Electronic Principles	60	3
7	Engine Electrical Charging and Starting Systems	60	3
8	Petrol Injection Systems for Spark Ignition Engines	60	3
9	Diesel Fuel Injection Systems for Compression Ignition Engines	60	3
10	Operation and Testing of Vehicle Electronic Ignition Systems	60	3
11	Vehicle Engine Management Systems	60	3
12	Light Vehicle Transmission Systems	60	3
13	Vehicle Electronic Ancillary and Information Systems	60	3
14	Light Vehicle Suspension, Steering and Braking Systems	60	3
15	Heavy Vehicle Braking Systems	60	3
16	Heavy Vehicle Transmission Systems	60	3
17	Heavy Vehicle Steering and Suspension Systems	60	3
18	Mathematics for Technicians	60	3
19	Business Systems for Technicians	60	3
20	Properties and Application of Engineering Materials	60	3
21	Fabrication Processes and Technology	60	3
22	Applications of Welding Technology	60	3
23	Engineering Design	60	3
24	Engineering Drawings for Technicians	60	3
25	Essential Working Practices in Vehicle Technology	60	2
34	Vehicle Electrical and Electronic Systems	60	3
35	Applications of New Technologies in Vehicle Design and Operation	60	3