

MOTOR VEHICLE – Yr9/10

Useful websites:

<https://www.cityandguilds.com/qualifications-and-apprenticeships/transport-maintenance/automotive/3902-introductory-qualifications-in-vehicle-systems-body-and-paint-maintenance-and-cycle-mechanics#tab=information>

Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
1. INDUCTION – HEALTH AND SAFETY UNIT	2. INTRODUCTION TO VEHICLE IGNITION SYSTEMS	3. INTRODCUTION TO VEHICLE TRANSMISSION SYSTEMS	4. INTRODUCTION TO VEHICLE COOLING SYSTEMS	5. UNIT 101/(SCQF UNIT 401) VEHICLE ENGINE LUBRICATION SYSTEMS	6. UNIT 3902-106 VEHICLE BRAKING SYSTEMS
Assessment Unit 1 <ul style="list-style-type: none"> Identify a range of hazards within a workplace and being able to implement necessary precautions to minimize risk of injury 	Assessment Unit 2 <ul style="list-style-type: none"> Spark plug removal, inspection & fitting. High tension lead removal, inspection and fitting Removing and replacing an ignition coil, including visual checks 	Assessment Unit 3 <ul style="list-style-type: none"> Remove & refit the following transmission components; sprocket, chain, wheel bearing & clutch Checking transmission unit levels and topping up with lubricants 	Assessment Unit 4 <ul style="list-style-type: none"> Thermostat & gasket replacement Radiator removal, inspection & replacement 	Assessment Unit 5 <ul style="list-style-type: none"> Dismantling a static engine Identifying basic wear and faults Reassembling the engine Carry out a brake fluid test 	Assessment Unit 6 <ul style="list-style-type: none"> Removing and fitting brake pads and disc assembly Fabricate a brake pipe

MOTOR VEHICLE – Yr11/12

Useful websites:

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Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
7. UNIT 3902-109 VEHICLE WHEEL AND TYRE SYSTEMS	8. UNIT 3902-103 VEHICLE FUEL AND EXHAUST SYSTEMS	9. UNIT 108/(SCQF UNIT 1080: VEHICLE STEERING AND SUSPENSION SYSTEMS	10. UNIT 105/(SCQF UNIT 105): VEHICLE ELECTRICAL SYSTEMS	11. UNIT 112/(SCQF UNIT 412): VEHICLE HAND SKILLS AND MANUFACTURING TECHNIQUES	12. STUDENT PORTFOLIO/COURSE WORK REVIEW
<p>Assessment Unit 7</p> <ul style="list-style-type: none"> Removing a wheel and changing a tyre Identify tyre faults and uneven wear Carry out a puncture repair activity and balancing the wheel to the tyre 	<p>Assessment Unit 8</p> <ul style="list-style-type: none"> Remove a fuel injector Removing a lambda sensor, taking exhaust gas reading Removing a section of exhaust with a catalytic converter 	<p>Assessment Unit 9</p> <ul style="list-style-type: none"> Removing a suspension or steering unit Dismantling the unit and examining components Checking final suspension/steering alignment and making adjustment as necessary 	<p>Assessment Unit 10</p> <ul style="list-style-type: none"> Checking battery voltages Removing and refitting a starter motor Removing and refitting an alternator 	<p>Assessment Unit 11</p> <ul style="list-style-type: none"> Understanding simple drawing and sketches Using engineering tools and equipment to manufacture components Demonstrating joining techniques used in engineering manufacturing 	<p>Unit 12</p> <ul style="list-style-type: none"> This time is given to students to finalise, amend and become up to date with any work that has been missed over the year.