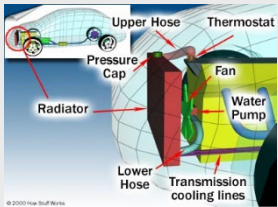
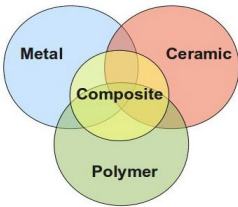




SCHEME OF WORK 2025/26

Level 1 Holistic Motor Vehicle Award / Certificate /Diploma

Course	Level 1 Award in Motor Vehicle Studies 500/4242/7 Level 1 Certificate in Motor Vehicle Studies 500/4220/8	Year of Course	1	1 yr	Modules/ Unit No.	ABC 1-4-5-8-9-10-11-15-16-18
Awarding Body	SEG	Tutor/ Instructor	Andy Rogers	Curriculum Sector	Vocational	
Course/Unit Aim(s)	 Skills & Education Group Awards Rational -Course Aim This qualification offers the learner the opportunity and insight into the motor vehicle industry. This course offers many units that the learner can embark on. This course will identify roles within the sector. It provides learners with specialist and transferable skills, engages them with current industry practice, and prepares them to progress onto further qualifications or employment within the motor vehicle industry. Starter Themes Future, Morals & Ethics, Faith, Health, Love, Unique, Laws, The World, Different Future and Success					
	Practical and Theoretical understanding of all units within Award and Certificate 1. Health & Safety for Motor Vehicle Studies 4. Introduction to Spark Ignition Power Units 5. Introduction to Engine Liquid Cooling and Engine Lubrication Systems 8. Introduction to Vehicle battery and Lighting systems 9. Introduction to Vehicle Steering and suspension 10. Introduction to Vehicle Braking System 11. Introduction to Vehicle Inspection 15. Introduction to Vehicle Wheels and Tyres 16. Introduction to Vehicle Exhaust System 18. Introduction to Vehicle Valeting  					

Week	Week start	Syllabus/ Spec Ref	Learning Outcomes	Topic/Content	Teaching and Learning/ Methodology	Assessment for/of learning	Cultural and Other Diversity Awareness	Opportunities for learners to practice Maths, English & ICT
1	On going throughout the course 02 nd 09 2025	Health and Safety	Health & Safety   1-5	Session Starter, Open group discussion on what are my plans for the future? What do I want to be when I finish school? Direction, where do I want to go. What do I want to achieve Mechanic, technician? Introduction to qualification structure delivery, assessment and what is expected of the learner in their journey through their chosen path. PPE identification and the need for different types Understanding Health and Safety requirements when completing workshop activities. The importance of tidying work area and maintaining tools and equipment to the manufacturer's requirements. Themes A look into the history of the engineering Industry (Inventors). Fate , A look into chosen paths in	Lecture Discussion Lecture Demonstration Power-point Practical and learner participation	Q&A Learners will complete tasks set on PPE	Discussion all-inclusive genders Learners can discuss other countries Health and Safety law and guidance.	English English is supported by Reading and completing documentation Continued Theme Understanding the requirements of the workshop to support learning and developments. Rules What do I need to do to support my future in my chosen sector

				life. Is anything possible Change, Small steps, large steps life changing. "Future" what can we change and why? Chosen path and independence, happiness.				
2	08 th 09 2025	SEG unit 1 1-5	Learners will complete a workshop plan and again understanding of the requirements including a key 1-5	In this mandatory unit learners will explore the responsibility of the employer and employee and the requirements of basic Health & Safety legislation. They will identify workshop hazards and basic safety procedures Introduction to Health & Safety within the Motor Vehicle Sector Rules and responsibilities of students and others. Identifying Risks and Workshop regulations PRACTICAL DRAW WORKSHOP PLAN Looking at Fire escapes and fire extinguishers. Red stop buttons. On the plan identify the following	Lecture Practical Discussion Guidance One to One Supported by TAs Within this session learners will listen to information regarding HASAWA COSHH and Risk assessment	Learners to complete workshop plan to the set requirements and absorb the theory to a level of retaining the information though-out their course	 Citarum River Indonesia	English, writing Visual stimuli Writing on the workshop Plan Themes Looking at the history of motor vehicles throughout the years. starting at the first vehicle including the development of the 4-stroke cycle engine. (Otto

				- Entrances and Exits - Emergency Exit - Vehicle lifts - Positions and types of Fire Extinguishers - Washing facilities PRACTICE/ASSESSMENT Themes Moral and ethical discussion on self-drive vehicles. Are machines capable of making decisions for us. Can machines think like us in an emergency. Can they go wrong? And at what cost				Cycle Engine) By Dr N.A Otto
	15 th 09 2025		Learner will be able to Carry-out a risk assessment. Learners will demonstrate Recovery Position and CPR and Elevation sling	Health and Safety Risk Assessment practice to include have a go first Aid Identify hazards and risks within the workshop and record findings. Look at possible injuries that could be sustained from neglect and bad practice Have a go first aid Identify PPE requirements within the Motor Vehicle sector Introduce COSHH regulations Waste Disposal Act 14001Reg Looking at Health & Safety carrying out a risk assessment	Risk assessment training Large Fire in Car Dealership Workshop, Chichester - Real Rescue Tutor to deliver a presentation of First Aid and	Learners will gain information on risk assessment and them carry-out an inspection of a realistic dangerous simulated welding shop Learners to gain information and complete documentation and demonstrate First Aid requirements	The International Red Cross and Red Crescent Movement started in 1863 and was inspired by a Swiss businessman, Henry Dunant. He had been appalled at the suffering of thousands of men, on both sides,	English, reading discussion number. Themes Looking into the future, should we let transport become autonomous.

				PRACTICAL Jacking Procedures Flat Ground Apply Hand brake Chock wheels Jack Vehicle at the correct jacking point for that vehicle Demonstrate Auto Data usage Fit under the Axle stands PRACTICE AND ASSESSMENT Vehicle Jacking and correct Procedure Themes faith? Do we look at ourselves , faith in our work and tools ,people or faith as in our belief. other ways of life following a religious path without technology.	demonstrate the requirements in an emergency CPR FAST 999 111 101 Assessor Observation	Learner Assessment	who were left to die due to lack of care after the Battle of Solferino in 1859. He proposed the creation of national relief societies, made up of volunteers, trained in peacetime to provide neutral and impartial help to relieve suffering in times of war.	
	22 nd 09 2025		Learners will gain the requirement of the use of fire extinguishers and identify correct one for the job. 1-5	Fire Extinguishers and usage Procedures in the event of an emergency Demonstrate appropriate ways to dispose of waste products in accordance with environmental guidance. Demonstration of Manual Handling and then the students demonstrate their abilities. Fire Prevention PRACTICE/ASSESSMENT	Lecture Power-point presentation on the use of fire extinguishers and their different applications Manual Handling demonstration Recap on Health & Safety information by	Learners to participate in identifying fire extinguishers and their mounting points within the garage Learners will complete exam to the best of abilities	History of the UK Fire and Rescue Service History The modern day Fire Brigade has evolved following many years of development and improvements since almost	English Reading instructions Theme Impact of new technology on the environment and our planet Pros and Cons

				HEALTH & SAFETY TEST/ CHECK Themes Insight into Health within the Automotive industry and the impact on ourselves and effects on others. exposure, chemicals, contact. Mental Health our mind is our ECU. Healthy relationships what we need for them to work?	introducing an exam	and achieve 60% or more	pre-history. From the time man discovered fire, he has also battled to control the flames. The first organised firefighting is believed to have originated in the UK during the Roman invasion in AD43. Even then, fighting fires was often limited to nothing better than buckets of water or simple syringes that squirted water at the fire. Once the Romans left, firefighting took a backward step as communities fell into decline.	
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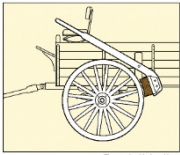
	29 th 09 2025		1-4	Session 1- Introduction to spark ignition power units [T/501/7011] In this unit the learner will find out about the main components of an engine, the operating principles of the four-stroke spark ignition engine and the function of gaskets, seals and locking devices. The 4-stroke cycle: Induction, compression, power and exhaust Introduction to inventors that influenced the industry Dr NA Otto, Rudolf Diesel Themes Love ? For the job fixing things making them alive again are vehicles like humans. They eat, breath and get rid of waste. Happiness passing your test, freedom, independence , helping others, job satisfaction. Can Love influence driving behaviour?	Power point on 4 stroke cycle Practical demonstration Practical Making paper gaskets for thermostat housing	Learners will complete documentation on The Four Stroke cycle Learner will make thermostat gaskets for gasket paper	Origins of Inventors that have shaped the motor vehicle industry over the centuries Dr NA Otto Rudolf Diesel	English completing documentation. Themes Vehicles and their origins and who manufactures them today workforce religion and faith across the world
	06 th 10 2025		1.4	Session 2- Introduction to spark ignition power units [T/501/7011] In this unit the learner will find out about the main components of an	Practical Demonstration dismantling static engine	Learner will dismantle engines to identify components	Motor Vehicle manufacture s	Complete documentation of component identification

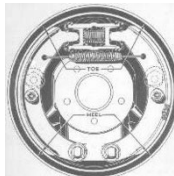
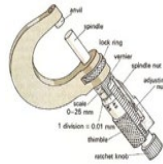
				engine, the operating principles of the four-stroke spark ignition engine and the function of gaskets, seals and locking devices PRACTICAL DEMONSTRATION AND ASSESSMENT Themes A discussion on Am I unique ? Why am I choosing automotive as my chosen career path. What are my contributing factors? what I'm I good at? What do I want to achieve? Can I make a difference?	and identifying components.		Germany, France, USA, Italy, Japan and others	Themes Within the motor trade faith to repair understanding of duty not cutting corners checking for compliance
	13 th 10 2025			Introduction to engine liquid cooling and engine lubrication systems [A/501/7012] Learners will observe the correct PPE and procedure for draining cooling system and engine lubrication system including oil filter. The use of correct tools and equipment will be observed and demonstrated. Themes The Law in the automotive Industry . An overview of why we need these laws. New law on Emission control and why ? Are we just getting old vehicles off the road? Transport emissions	Power-point Demonstration Oil and filter removal demonstration and cooling system drain and replenish	Learners to demonstrate their abilities by complete all task set. Task 1 Drain engine oil and change filter. Task 2 Drain and replenish cooling system	Different oil and coolant specification for hot and cold climate	Maths in measuring quantity of liquid Themes Emission, pollution the true calculations of road vehicle compared to other contributing factors

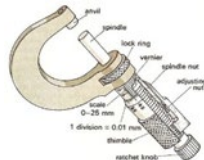
				contribute to 14% of greenhouse emission. what or who are the other main contributors of emissions globally? What happens if we do nothing?				
8		Half Term		OCTOBER HALF TERM				
9		Half Term						
	04 th Nov 2025			Introduction to engine liquid cooling and engine lubrication systems [A/501/7012] Learners will observe the correct PPE and procedure for draining cooling system and engine lubrication system including oil filter. Understanding the term viscosity and API-SAE The use of correct tools and equipment will be observed and demonstrated. Including the use of a hydrometer. PRACTICAL ASSESSMENT Themes Is the world smaller than ever? Are we overpopulated as a country? Are we constantly building houses? Are we using more vehicles now than ever before and why? Your thoughts on your future do you think we will become like China having to	Power-point Demonstration Oil and filter removal demonstration and cooling system drain and replenish	Learners to demonstrate their abilities by complete all task set. Task 1 Drain engine oil and change filter. Task 2 Drain and replenish cooling system	Different oil and coolant specification for hot and cold climate	Maths in measuring quantity of liquid Themes Keeping yourself and others safe within your control, Looking within your sector (Motor Vehicle) How to stay healthy and safe

				reduce living space using technology?				
	10 th Nov 2025			Session 1 Introduction to battery and lighting systems [L/501/7015] In this unit the learner will explore the function, operation and routine procedures required on the vehicle battery and lighting system. They will explore the main components of the lighting, driver information and circuit protection systems Themes How will life be different in the future? The automotive industry is heavily looking into this now by vehicle emission control. By 2035 the internal combustion will cease to be manufactured and banned. Is this realistic do we think? Are we anywhere near that leap yet?	Demonstration On location of main components and function test using a multi-meter	Learners will complete practical assessment on location of main components of the electrical Lighting system And function test using a multi-meter to check readings to check against manufacturers specifications	Colour of headlights in some countries and also driving on the other side of the road	Complete documentation Themes Love of freedom being able to drive the vehicles you fix how would that make you feel and what does it mean to you. Independence visiting loved ones

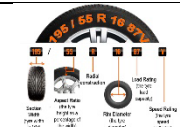
	17 th Nov 2025			Session 2 Introduction to battery and lighting systems [L/501/7015] In this unit the learner will explore the function, operation and routine procedures required on the vehicle battery and lighting system. They will explore the main components of the lighting, driver information and circuit protection systems. PRACTICAL DEMONSTRATION AND ASSESSMENT Themes What is success? Who is successful in our industry? How can I measure my success? What are my steps/ options? Can I take different paths to get to the same goal? What have I achieved already at this time in my life? I'm I going to be a mechanic or an engineer technician in the future. What is it going to be like?	Demonstration On location of main components and function test using a multi-meter	Learners will complete practical assessment on location of main components of the electrical Lighting system And function test using a multi-meter to check readings to check against manufacturers specifications	Colour of headlights in some countries and also driving on the other side of the road	Complete documentation Themes Love of the job fixing things with your hands bring this back to life how does that make you feel
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24 th Nov 2025	1.1 - 4.1	1.4	Introduction to vehicle braking systems [Y/501/7017] In this unit the learner will explore the layout of basic braking systems and the performing of routine maintenance tasks for these systems, following all relevant safety precautions Look into the tools required for the removal of brakes and the importance of checking for wear on the components within the system. Looking for leaks within the system such as leaking wheel cylinder and brake line damage also to include flexible brake hose inspection such as cracking.	Lecture power-point presentation on braking systems and picture link with A3 vehicle Looking at possible faults such as leaking wheel cylinders and master cylinders, calipers	Learners will identify components and carry out picture link task and the demonstrate brake pad removal and replacement using measuring devices such as Micrometer or vernier calliper	 Wooden Block The early braking systems to be used in vehicles with steel rimmed wheels consisted of nothing more than a block of wood and a lever system. When he wanted to stop, the driver had to pull the lever located next to him and make the wooden block bear against the wheel. The method proved effective in both horse drawn or steam powered	Lecture power-point presentation on braking systems and picture link with A3 vehicle Looking at possible faults such as leaking wheel cylinders and master cylinders, calipers
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							vehicles. It started becoming obsolete towards the end of the 1890s, when the Michelin brothers began replacing steel rimmed wheels with the rubber tire. The wood block method, needless to say, was useless in conjunction with rubber. 	
	01 st Dec 2025			Introduction to vehicle braking systems [Y/501/7017] In this unit the learner will explore the layout of basic braking systems and the performing of routine maintenance tasks for these systems, following all relevant safety precautions Practical Assessment	Practical demonstration removing brake pads and shoes and refit using logical approach and techniques Look at other braking systems instead of hydraulic. Electrical, pneumatic etc.	Learners using the correct PPE are to demonstrate their abilities by removing brake pads and cleaning and refitting all torque to the required specifications		Complete Job-cards in detail Themes Vehicles that are unique custom built British built, American, German, Japanese and Korean

				Testing of brake fluid due to it being Hygroscopic. PRACTICAL DEMONSTRATION AND ASSESSMENT				
	08 th Dec 2025	1-3	1.1-3.4	Introduction to Vehicle Inspection [D/501/7018] In this unit the learner will learn the different types of vehicle inspections and how to carry out each to a specification. They will find out about the reasons for using and completing service records	Demonstration and lecture and an in-depth look into Vehicle inspection. Check all levels within the vehicle. identify inspection such as PDIs demonstrate techniques intervals. Weekly checks and service Interim and full	Learners will carry-out vehicle inspection on vehicles that have been selected and an inspection report completed 		English spelling and grammar Themes The laws we need to comply with within the industry
	15 th Dec 2025	1-3	1.1-3.4	Introduction to Vehicle Inspection [D/501/7018] In this unit the learner will learn the different types of vehicle inspections and how to carry out each to a specification. They will find out about the reasons for using and completing service records	Look into possible problems when carrying out vehicle inspection. Braking system low pedal travel on foot brake, handbrake travel exceeds recommend clicks .Fluid level low on	Learners are to identify simulated faults on vehicle system and rectify defects using correct procedure and specifications		English and Maths Themes Laws of the road and vehicles, penalties and convictions and prison

				PRACTICAL DEMONSTRATION AND ASSESSMENT	braking system and other systems cooling, lubrication system etc. Assessor Observation		Learner assessment	
	22 nd Dec 2025			Xmas Break				
	29 th Dec 2025			Xmas Break				
	Back to learning 05 th 01 2026 To 26 th 01 2026	1-5	1.1-5.1	Introduction to steering and suspension [R/501/7016] In this unit the learner will find out about the layout of basic steering and suspension systems and the performing of routine maintenance tasks for these systems, following all relevant safety precaution	Demonstration and lecture on suspension and steering location and function of components	Leaners will complete a diagram of a vehicle and label with the correct names of components and terminology		Maths and English Themes Impact of the Population
		1-5	1.1-5.1	Introduction to steering and suspension [R/501/7016] In this unit the learner will find out about the layout of basic steering and suspension systems and the performing of routine maintenance tasks for these systems, following all relevant safety precaution	Lecture and demonstration on identifying vehicle faults and rectification	Identifying vehicle suspension faults including tyre wear and worn components		Themes Environmental factors of Vehicles on the road and the farming industry, looking at the wider picture land , sea and air
	2 nd 02 2026			Assessment week Suspension and steering ASSESSMENT WEEK	Assessor Observation	Learner assessment		Maths and English How the future looks the ever- developing technology

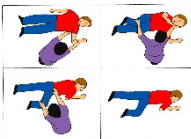
	09 th 02 2026			Portfolio and referencing of evidence session	Guidance	Learners to build portfolio and reference their evidence		English Themes A look forward to the future what will vehicles, transportation look like
	02 nd 03 2026 To 23 rd 03 2026	1.7	1.1 – 7.1	Introduction to vehicle wheels and tyres In this unit the learner will learn how to identify modern types of road wheels and tyres, their construction and correct usage including the carrying out of practical activities regarding wheels and tyres Learning Outcomes (1 to 7) The learner will Assessment Criteria	Demonstration and lecture on Wheels and tyres and exhaust Identifying and labelling tyres and the information on the side wall. TWI indicators Tools required to fix tyres legal limits 1.6mm	Learners are to complete and label diagram Carry out vehicle tyre inspection and tyre change	 It was in 1845 that the pneumatic or air-filled tyre - which works by air within the tyre absorbing the shocks of the road – was invented and patented by RW Thomson. His design used a number of thin inflated tubes inside a leather cover (see illustrated). This meant that it would take more than one puncture before the	Maths and English

							tyre deflated. However, despite this new breakthrough in tyres, the old solid rubber variety was still favoured by the public,	
	30 th 03 2026 to 06 th 04 2026			HALF TERM EASTER				
	13 th 04 2026 To 27 th 04 2026			Introduction to vehicle wheels and tyres In this unit the learner will learn how to identify modern types of road wheels and tyres, their construction and correct usage including the carrying out of practical activities regarding wheels and tyres Learning Outcomes (1 to 7) The learner will Assessment Criteria	Demonstration and lecture on Wheels and tyres and exhaust Identifying and labelling tyres and the information on the side wall. TWI indicators Tools required to fix tyres legal limits 1.6mm	Learners are to complete and label diagram Carry out vehicle tyre inspection and tyre change		Maths and English
	05 th 05 2026			Assessment Week Tyres	Assessor Observation	Learner Assessment		Maths and English
	11 th 05 2026			Practical session and portfolio session	Portfolio guidance by Tutor	Complete portfolio handbook documentation		Maths and English demonstrated by complete

								sections within handbook
	18 th 05 2026			Practical session and portfolio Building session	Observation	Assessment		English
	25 th May 2026			HALF TERM				
	01 st 06 2026			Practical session and portfolio session	Observation	Assessment		English
	08 th 06 2026 15 th 06 2026			Health and Safety End Test Exam Practical Test Learners will demonstrate their abilities	Observation	Assessment		English
	22 nd 06 2026			Spark ignition power units End Test Exam	Observation	Assessment		English
	29 th 06 2026			Vehicle braking systems End Test and Exam	Observation	Assessment		English
	01 st 07 2026			Introduction to steering and suspension [R/501/7016] In this unit the learner will find out about the layout of basic steering and suspension systems and the performing of routine maintenance tasks for these systems, following all relevant safety precaution. Revisit	Lecture and demonstration on identifying vehicle faults and rectification	Identifying vehicle suspension faults including tyre wear and worn components	In other countries they drive on other side of the road and steering wheel is on the left compared to our that is on the Right	Maths, English Using equipment Themes How will I succeed what steps have I taken
	06 th 07 2026			Introduction to steering and suspension [R/501/7016] In this unit the learner will find out	Lecture and demonstration on identifying	Identifying vehicle suspension faults including tyre		

				about the layout of basic steering and suspension systems and the performing of routine maintenance tasks for these systems, following all relevant safety precaution. Revisit	vehicle faults and rectification	wear and worn components		
	13 th 07 2026			Introduction to vehicle braking systems [Y/501/7017] In this unit the learner will explore the layout of basic braking systems and the performing of routine maintenance tasks for these systems, following all relevant safety precautions Practical Assessment Testing of brake fluid due to it being Hygroscopic. PRACTICAL DEMONSTRATION AND ASSESSMENT Revisit	Practical demonstration removing brake pads and shoes and refit using logical approach and techniques Look at other braking systems instead of hydraulic. Electrical, pneumatic etc.	Learners using the correct PPE are to demonstrate their abilities by removing brake pads and cleaning and refitting all torque to the required specifications		Complete Job-cards in detail
	20 th 07 2026			Introduction to Vehicle Inspection [D/501/7018] In this unit the learner will learn the different types of vehicle inspections	Demonstration and lecture and an in-depth look into Vehicle inspection. Check all levels	Learners will carry-out vehicle inspection on vehicles that have been selected		English spelling and grammar

				and how to carry out each to a specification. They will find out about the reasons for using and completing service records	within the vehicle. Identify inspection such as PDIs demonstrate techniques intervals. Weekly checks and service Interim and full	and an inspection report completed		
				Revisit				
				Introduction to vehicle valeting In this unit the learner will find out about the selection and application of correct materials when valeting the exterior, interior and engine bay of motor vehicles. They will learn about the correct handling and disposal of waste	Demonstration and lecture on cleaning products and techniques and procedures	Learners to complete a full valet in and out of the vehicle using correct product including quantity and method.		English and Maths Themes Have I done my best to succeed in all my classes and relationships
		1-6	1.1-6.1	Introduction to vehicle valeting In this unit the learner will find out about the selection and application of correct materials when valeting the exterior, interior and engine bay of motor vehicles. They will learn about the correct				

				handling and disposal of waste				
				Valeting Assessment Week	Assessor Observation	Learner Assessment		
				Have a go First Aid Challenge Live assessment with simulated injuries Bandaging.	Observation and assessment	Peer assessment with guidance		
				<u>Phase tests</u> Testing to industry standards Block drilled and tapped Tyre repairs Brake System check and measure Exhaust Challenge Soldering Challenge <u>Stretch and Challenge</u> Simulated causality area students are to enter simulation and evaluate situation and deal appropriately by DRAB survey 	Full assessment  cpr training day Tutors will assess learners as they go through their tests and record their findings Assessors to question and stretch learners 	Learners will complete all assessment tasks and complete all documentation	The International Red Cross and Red Crescent Movement started in 1863 and was inspired by a Swiss businessman, Henry Dunant. He had been appalled at the suffering of thousands of men, on both sides, who were left to die due to lack of care after the Battle of Solferino in 1859.	
				Next step assessment & Practical evaluations	Guidance			

				Next step assessment & Practical evaluations	Guidance			
				Next step assessment & Practical evaluations	Guidance			
				Summer Break				