

Motor Vehicle Curriculum Map – Year 10-11

Term	Units of Study	Teaching and Learning Methods	Learning Outcomes
<p>Autumn 1: L1MV01 HEALTH AND SAFETY IN THE WORKPLACE</p> <p>This unit introduces learners to the health and safety knowledge requirements when carrying out simple maintenance and repair tasks in the workplace. This unit covers the general requirements of health and safety in the workplace including personal responsibilities, common hazards and risks, manual handling, health and safety information, fire prevention and emergency evacuation procedures.</p> <p>Learners are required to complete a plan of the workplace highlighting the Health and Safety information, equipment and notices.</p>	<p>Health and safety requirements and information used in the workplace</p> <p>AC 1.1-1.4</p>	<p>Present and discuss with learners their personal and others responsibilities, hazards and risks of working in the workplace, highlight the consequences of in appropriate behaviour, failing to recognise hazards and risks.</p> <p>Highlight safe working practices, the purpose, use and reviews of risk assessments in the workplace.</p> <p>Have learners inspect the workplace to identify and record the locations of health and safety information and notices.</p> <p>Create questions and quizzes to test learners understanding and knowledge.</p> <p>Use of setting up a workplace with recognised hazards will enable learners to demonstrate hazard awareness and associated risks.</p> <p>Present and discuss with learners the safe manual handling techniques, the types of equipment and their correct use to reduce the risk of personal injuries.</p> <p>Highlight the consequences of not using the correct techniques and appropriate</p>	<ol style="list-style-type: none"> 1. Know health and safety requirements and information used in the workplace 2. Know the safe manual handling techniques to be used in the workplace 3. Know the local legislation procedures associated with working in the workplace 4. Know about fire prevention and emergency procedures

	<p>Safe manual handling techniques to be used in the workplace AC 2.1-2.2</p>	<p>selection and use of equipment. Highlight safe working practices, the purpose, use and reviews of risk assessments in the workplace.</p> <p>Demonstrate to learners the practices of recognising and using appropriate techniques to move objects and components around the workplace to include:</p> <ul style="list-style-type: none">• jacking equipment• cranes• hoists• chains, slings, chains and wire ropes• vehicle lifts and stands• skates and dollies• trollies and sack trucks <p>Present and discuss with learners the common main substances hazardous to health in the workplace including:</p> <ul style="list-style-type: none">• liquids – petrol, diesel, oil, brake fluid, cleaners, paint, thinners• gases – exhaust, welding and heating equipment• solids – used and contaminated components	
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	<p>Local legislation procedures associated with working in the workplace AC 3.1-3.2</p> <p>Fire prevention and emergency procedures AC 4.1-4.3</p>	<p>Highlight the types of control measures to reduce the risks of harm and injury when using these substances.</p> <p>Present and discuss with learners the appropriate methods to dispose of waste materials in the workplace including:</p> <ul style="list-style-type: none"> • waste oil and filters • old units and components • cleaning materials • volatile materials – petrol filters, petrol engine components • used vehicle body materials, paint, thinners <p>Present and discuss with learners the reasons for having emergency and evacuation procedures to include:</p> <ul style="list-style-type: none"> • in the event of a colleague suffering an electric shock • in the event of a serious accident • sounding alarm • use of appropriate fire extinguisher • evacuation of premises <p>Use the workplace emergency and the evacuation procedure of the premises as</p>	
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	<p>Complete Learner Worksheet AC 1.1-5.3</p>	<p>part of learner's induction process, learners to record the key contacts.</p> <p>Present and discuss with learners the three elements to produce a fire and the use of appropriate fire extinguishers to tackle the various fires likely in the workplace including:</p> <ul style="list-style-type: none">• liquids• solids• electrical <p>Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.</p>	
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	<p>Common terms applied to the materials used in vehicle construction AC 2.3-2.4</p> <p>Complete Learner Worksheet</p>	<p>Present and discuss the common terms associated with metals and vehicle materials including:</p> <ul style="list-style-type: none">• Hardness, toughness, ductility, elasticity, tenacity, malleability, plasticity• Tensile stress, compressive stress, yield stress, shear force <p>Devise activities for learners to identify and record the qualities of the various metals used on the range of vehicle components. Use Q&A supported with Quizzes' to check on learner's knowledge and understanding.</p> <p>Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.</p>	
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	<p>locate identification numbers on vehicles and components AC 3.1-3.4</p> <p>Complete Learner Worksheet AC 1.1-4.2</p>	<p>Demonstrate the typical locations and reasons for accessing:</p> <ul style="list-style-type: none"> • Chassis / frame number • Vehicle registration number • Engine number • Component part numbers <p>Learners to locate and interpret vehicle registration, engine and component numbers from a variety of locations on the vehicle to be repaired or serviced</p> <p>Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.</p>	
<p>Summer 1 L1MV66 MOVING LOADS AND VEHICLE LIFTING This unit introduces the learner to the knowledge and skills essential for the safe working operations when manually lifting, moving loads and when using manual handling equipment. The unit also covers the use of vehicle lifting and securing equipment, learners are required to use effective and safe working practices whilst using this equipment.</p>	<p>Risks of manual handling and moving loads. AC 1.1-1.4</p>	<p>Present and discuss with learners the PPE that should be worn when moving loads including:</p> <ul style="list-style-type: none"> • Safety boots, safety hat, overalls, safety gloves, reflective jacket/tabard. <p>Introduce learners to the HSE Web site where information and legislation on manual handling can be found, explain the reason and purpose of guidelines and legislation.</p> <p>Present and discuss with learners the local manual handling operating regulations and guidelines that individuals and employers need to follow.</p> <p>Highlight the typical risks of injury during lifting and moving to:</p> <ul style="list-style-type: none"> • Arms, legs and joints, slips, trips, and repetitive strain injuries of various sorts. 	<ol style="list-style-type: none"> 1. Know the risks of manual handling and moving loads. 2. Know appropriate methods of lifting, moving and securing heavy loads. 3. Know safe manual handling procedures.

	<p>Methods of lifting, moving and securing heavy loads. AC 2.1-2.4</p>	<p>Highlight the types of equipment employers must provide for moving heavy loads and the use of risk assessments by employees to reduce the risks of injury.</p> <p>Introduce learners to a range of lifting and moving equipment they are likely to use in their work environment, explain and demonstrate its correct use.</p> <p>Devise activities for learners to be able to select, secure and move objects and loads using the equipment and the techniques shown, including:</p> <ul style="list-style-type: none">• use of PPE• safe working loads (SWL) lifting capacity• care when moving loads over uneven surfaces• appropriate selection of equipment for the task• avoiding obstructions and floor based obstacles- cables and leads• safe working environment for equipment being used• stability of loads whilst being moved• condition and well maintained equipment	
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	<p>Know safe manual handling procedures. AC 3.1-3.3</p>	<p>Discuss and demonstrate moving loads manually to include:</p> <ul style="list-style-type: none"> • safe personal lifting limits • use of PPE • planning the lift • adopting a safe position • feet position • where is the load going to • will I need help with lifting the load • removal of obstructions from packaging • will I need to change grip in moving the load <p>Discuss and demonstrate lifting and moving loads using equipment to include:</p> <ul style="list-style-type: none"> • working within the Safe Working Limits (SWL) of the equipment • training and authorised to use mechanical equipment • equipment condition • follow safe procedures when using mechanical equipment • informing others • reporting of faults of equipment to authorised persons • safe, secure and level ground loads will be transported across • using equipment risk assessments <p>Discuss and demonstrate the methods and precautions to be taken when using lifting and supporting a vehicle to include:</p> <ul style="list-style-type: none"> • inspect the floor jack or lift for fluid leaks before use 	
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	<p>Complete Learner Worksheet AC 1.1-5.1</p>	<p>Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.</p>	
<p style="text-align: center;">Summer 2 L1MV06 PREPARATION TO BECOME A VEHICLE DRIVER</p> <p>This unit will provide the learner with the knowledge which learner drivers need to know before they begin to drive. This includes applying for their first driving license, becoming familiar with the Highway Code, arranging driving lessons and booking the driving test.</p>	<p>Applying for a first driving license AC 1.1-1.4</p> <p>Road safety signs AC 3.1</p> <p>The Highway Code AC 2.1-2.3</p>	<p>Discuss the process of applying for a first driving license and devise a 'mock' application to aid the learner in becoming familiar with the type of information which is require when applying for a first driving license. Discuss and record the reasons why a person may be refused a first license. Arrange a guest speaker from a driving association or the local Police to discuss how to remain safe when in charge of a vehicle.</p> <p>Devise activities / quizzes to promote the meaning of common road signs. Use video of driving footage to observe road signs and facilitate group work to feedback the meaning of the ones which were spotted.</p> <p>Discuss the purpose of the Highway Code and provide examples of the contents. Devise activities which will aid the learners in locating information within the highway code.</p>	<ol style="list-style-type: none"> 1. Know the process of applying for their first driving license 2. Know the purpose of the Highway Code 3. Know the meaning of a sample of road safety signs 4. Know how to identify an approved driving school and instructors 5. Know the content of both the theory and practical driving tests

	<p>The theory and practical driving tests AC 4.1-4.2</p> <p>The theory and practical driving tests AC 5.1-5.5</p> <p>Complete the learner worksheet AC 1.1-5.5</p>	<p>Discuss and record things to consider when choosing a driving school and instructor. Provide contact information of organisations which can deal with poor service or behaviour from a driving school or driving instructor. Arrange a guest speaker from a driving school to discuss lessons and the standards which driving instructors must adhere to. Devise simple research activities to aid the learners' in identifying the content and timescale of the:</p> <ul style="list-style-type: none"> • Driving theory test • Practical driving test <p>Provide information on local driving test centres and aid the learners in locating the nearest one to them. Devise an activity which allows the learners to locate information on the different methods of booking a driving test and what documents must be produced at the test centre. Discuss vehicle problems and faults which may prevent it being used for the driving test. Facilitate the learners in recording the list of faults. Provide supplementary materials to support the completion of the worksheet.</p> <p>Explain the layout of the worksheet and ensure the learners understand how to complete it.</p>	
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