

TEACHING PLAN

For use with

IMI Level 1 Award in Transport Maintenance

Qual ID: 601/8753/0

FOR ASSESSORS & QUALITY ASSURERS ONLY



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Teaching Plan: Level 1 Award Transport Maintenance

UNIT REF: L1MV01

UNIT TITLE: HEALTH AND SAFETY IN THE WORKPLACE

Level: 1 Gu	ided Learni	ng (GL): 21 Hrs	
Overview: 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			
Learners are required to complete a pla	an of the wo	rkplace highlighting the Health and Safety information equipment	
and notices.			
Learning Outcomes:			
1. Know health and safety requirement	nts and info	rmation used in the workplace	
2. Know the safe manual handling teo	chniques to	be used in the workplace	
3. Know the local legislation procedur	es associat	ed with working in the workplace	
4. Know about the prevention and en		Teaching Methods	
	//0	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.	
		Highlight safe working practices, the purpose, use and reviews of risk assessments in the workplace.	
Health and safety requirements and	1111	Have learners inspect the workplace to identify and record the	
information used in the workplace	1.1-1.4	locations of health and safety information and notices.	
		Create questions and quizzes to test learners understanding and	
		knowledge.	
		Use of setting up a workplace with recognised hazards will enable	
		learners to demonstrate nazard awareness and associated risks.	
		caused through neglect and noor housekeening	
		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.	
		Highlight the consequences of in not using the correct techniques	
		and appropriate selection and use of equipment. Highlight safe	
		working practices, the purpose, use and reviews of risk	
		assessments in the workplace.	
		Demonstrate to learners the practices of recognising and using	
Safe manual handling techniques to		the workplace to include:	
be used in the workplace	2.1-2.2	iacking equipment	
		cranes	
		hoists	
		 chains, slings, chains and wire ropes 	
		vehicle lifts and stands	
		skates and dollies	
		trollies and sack trucks	
		Use HSE Web site for guidelines and legislation regarding manual	
		handling.	
		Present and discuss with learners the common main substances	
		hazardous to health in the workplace including:	
		 liquids – petrol, diesel, oil, brake fluid, cleaners, paint, thispare 	
		Uninners	
Local logiclation precedures		 gases - exhausi, weiging and nearing equipment solide - used and contaminated components 	
Local legislation procedures	31-32	soluts - used and control measures to reduce the risks of Highlight the types of control measures to reduce the risks of	
workplace	3.1-3.2	harm and iniury when using these substances.	
		Present and discuss with learners the appropriate methods to	
		dispose of waste materials in the workplace including:	
		waste oil and filters	
		old units and components	
		cleaning materials	

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		 volatile materials – petrol filters, petrol engine components used vehicle body materials, paint, thinners Highlight the legislation and the damage to the environment as a consequences of failing to dispose of materials in the correct manor. Use HSE Web site for guidelines and legislation regarding the disposal of waste materials, highlight prosecution cases to reinforce the importance.
Fire prevention and emergency procedures	4.1-4.3	 Present and discuss with learners the reasons for having emergency and evacuation procedures to include: 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 Use the workplace emergency and the evacuation procedure of the premises as part of learner's induction process, learners to record the key contacts. 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: liquids solids electrical Use HSE Web site to highlight legislation and prosecution cases to reinforce the importance and awareness.
Complete Learner Worksheet	1.1-5.3	Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 29 hrs

UNIT REF: L1MV02 UNIT TITLE: LOCATING, INTERPRETING & USING TECHNICAL INFORMATION

Level: Level 1	Guided Learni	ng (GL): 12 Hrs		
Overview: This unit provides the learners with the basic knowledge in how to identify and access the technical				
use the technical information required	d for effective	maintenance and repair procedures and activities.		
Learning Outcomes:				
1. Know where to find technical info	ormation			
2. Know the different types and loca	ation of techni	Ical Information		
4. Be able to access, interpret and u	use technical	information		
Subject	AC	Teaching and Learning Methods		
Where to find technical information	1.1-1.2	Present and discuss the reasons for technicians to access and use current and accurate technical information during maintenance and repair activities. Identify a range of equipment and sources used to gather information. Service manuals, service publications, wall charts,		
Different types and location of technical information	2.1-2.2	 micro-fiche, technical bulletins and computerised systems. Present and discuss the various types of technical information sources available to the technician, to include advantages and disadvantages of each type: Online workshop technical information sources Independent garage repair schemes Manufacturers online support services Vehicle owners workshop manuals Vehicle owners book Use group work for learners to research the various types available. Devise questions and quizzes to check on learner's knowledge and understanding. 		
locate identification numbers o vehicles and components	n 3.1-3.4	 Demonstrate the typical locations and reasons for accessing: Chassis / frame number Vehicle registration number Engine number Component part numbers Learners to locate and interpret vehicle registration, engine and component numbers from a variety of locations on the vehicle to be repaired or serviced 		
Complete Learner Worksheet	1.1-4.2	Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.		

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 17 hrs

UNIT TITLE: KNOWLEDGE RELATING TO AUTOMOTIVE FOUNDATION SKILLS

Level: 1 Guided Learning (GL): 17 Hrs				
Overview: This unit will enable the learner to develop the knowledge for tools, equipment, measuring devices and materials used in simple repair, servicing, maintenance activities and the materials used in vehicle construction: Learning outcome 1 relates to the knowledge required when using a range of mechanical measuring and electrical equipment, locking and securing devices, hand tools and workshop equipment used within a workplace environment. Learning outcome 2 introduces the learners to the range of materials and their applications used in vehicle construction.				
Learning Outcomes:				
1. Know the basic tools, equipment a	nd measurii	ng devices used within a workplace environment		
2. Know the materials used in vehicle		DN Tooshing Mathada		
Subject	AC	I eaching methods		
Main units of measurement and measuring equipment related to repair and automotive environment.	1.1-1.2	 and equipment found in automotive repair, to include: Units of measurement Length, Area, Volume, Mass, Force, Velocity, Pressure, Temperature, Torque. Measuring equipment Rule/Tape, Calliper, Feeler Gauge, Volume Measures, Vernier Calliper, Micrometer, Dial Gauges, Torque Wrenches, Multimeter, Pressure gauge Use a variety of teaching and learning opportunities to enable learners use measuring equipment to measure common components / work areas, eg. Workshop length, width and volume calculations using a tape measure. Devise activities for learners to complete, provide extra support for those who may struggle. 		
Basic principles of electrical circuits/ components and electrical measuring equipment.	1.3-1.4	 Present and discuss basic electrical circuits and component concepts. Build a simple lighting circuit using: Series and parallel circuits Battery, wiring, switch and lighting bulb circuit Introduce learners to: Voltage, Current and resistance terms. Use ohms law to calculate the current flowing in the circuit. Use electrical tools and measuring equipment to build and check for correct circuit operation. 		
Locking and securing devices used in an automotive environment	1.5	 Present and discuss the common locking and securing devices used in the automotive industry, to include: Fixing devices; nuts, bolts and screws, Screw threads, types and applications Locking and securing devices; lock nuts, split pins, locking wire, tab washers, chemical thread locking Devise activities and worksheets where learners can identify and record the use of different nuts, bolts and thread applications. Devising a practical activity using a range of components above would be beneficial in furthering learners knowledge and understanding. 		
Common hand tools and workshop used in an automotive environment	1.6	 Present and discuss the common hand tools used in the automotive environment, to include: Files, hacksaw, hammers, screwdrivers, pliers, types of spanner, sockets, torque wrenches, feeler gauge, micrometer, punches, air drill, electrical hand drill, drill bits, vices, taps and dies, broken stud removers, Demonstrate the use and care of the common tools. Devise activities where learners can use the tools above in a real life workshop situation. 		

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	1.7	 Present and discuss the workshop equipment used in the automotive environment, to include: hydraulic jacks /scissor jacks, axle stands / paddock stands, pillar drills, air tools, vehicle lifts, cranes, hoists, dollies, skates Demonstrate the use and care of the workshop equipment. Devise activities where learners can use the workshop equipment above in a real life workshop situation. 	
Ferrous, non-ferrous and non-metallic materials, and their application in vehicle construction	2.1-2.2	 Present and discuss the reasons and the applications of the ferrous, nonferrous and non-metallic materials used in vehicle construction and components, including: carbon steel, steel alloys, cast iron, aluminium, brass, copper, lead Glass, safety glass, reinforced plastic, Kevlar, rubber Devise activities for learners to identify and record the various uses on a vehicle where these materials are used. Use Q&A supported with Quizzes' to check on learners knowledge and understanding. 	
Common terms applied to the materials used in vehicle construction	2.3	 Present and discuss the common terms associated with metals and vehicle materials including: Hardness, toughness, ductility, elasticity, tenacity, malleability, plasticity Tensile stress, compressive stress, yield stress, shear force 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. 	
Complete Learner Worksheet	1.1-2.3	Advise and coach the learners to complete the worksheet and supplement it with additional information and handouts.	
Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 25 hrs			

UNIT TITLE: MOVING LOADS AND VEHICLE LIFTING

Level: 1 Gu	evel: 1 Guided Learning (GL): 15 Hrs			
Overview: 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	s are require	ed to use effective and safe working practices whilst using this		
equipment.				
1. Know the risks of manual handling	and moving	ا loads.		
2. Know appropriate methods of lifting	g, moving a	nd securing heavy loads.		
3. Know safe manual handling proceed	dures.			
Subject	AC	Teaching Methods		
Risks of manual handling and moving loads.	1.1-1.4	 Present and discuss with learners the PPE that should be worn when moving loads including: Safety boots, safety hat, overalls, safety gloves, reflective jacket/tabard. 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. Present and discuss with learners the local manual handling operating regulations and guidelines that individuals and employers need to follow. Highlight the typical risks of injury during lifting and moving to: Arms, legs and joints, slips, trips, and repetitive strain injuries of various sorts. Present, discuss and demonstrate safe manual handling 		
Methods of lifting, moving and securing heavy loads.	2.1-2.4	 techniques, considerations to be taken before, during and when placing objects down. 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. 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. Devise activities for learners to be able to select, secure and move objects and loads using the equipment and the techniques shown, including: 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 Provide feedback where necessary to enable learners to be fully aware of the potential risks of injury or harm. Devise questions and answer activities to check on learners understanding and knowledge. Demonstrate the visual inspection checks to include: leaks and mechanical condition physical damage seized or broken components correct operation of components damaged wiring cuts and fraved straps 		

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		certificates of conformity (insurance)
Know safe manual handling procedures.	3.1-3.3	 Discuss and demonstrate moving loads manually to include: 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 Discuss and demonstrate lifting and moving loads using equipment to include: 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 Discuss and demonstrate the methods and precautions to be taken when using lifting and supporting a vehicle to include: inspect the floor jack or lift for fluid leaks before use using wehicle manufacturer specifications for vehicle weight. using manufacturer specifications for axle stand capacity. following correct procedure when using floor jacks and vehicle lifts ensure the vehicle is placed on a hard, level surface raising the vehicle is raised, it must be supported chock wheels before removing the jack use vehicle manufacturer specifications for vehicle weight.
Complete Learner worksneet	1.1-5.1	supplement it with additional information and handouts.

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 22 hrs

UNIT TITLE: THE RETAIL MOTOR INDUSTRY

Level:1	Guided Learni	ing (GL): 13 Hrs			
Overview: This unit will provide the le	Overview: This unit will provide the learner with the knowledge of organisations within the retail motor industry, in				
addition to this, the learner will identify trade associations and how to qualify for professional registers.					
Learning Outcomes:					
 Know vehicle repair organisations Know different trade associations Know the benefits of automotive 	within the retain	ail motor industry egisters			
Subject	AC	Teaching Methods			
Repair organisations within the retai motor industry	1.1, 1.2, 1.3, 1.4, 1.5, 1.6	Devise activities which highlights the different types of vehicle repair organisations within the retail motor industry. Discuss and provide examples of a basic structure of a vehicle repair business, assist the learners' in producing an organisational structure and discuss the reasons for the layout / structure. Compare a franchised dealership with an independent workshop and facilitate a discussion to include the differences between them and any advantages and disadvantages. Discuss the main procedures which are involved when receiving a vehicle for repair, provide worksheets for the learners to record the list of procedures. Discuss different methods of communication methods which are used in a vehicle workshop or dealership. Facilitate the learners in communication activities and record what communication methods are appropriate for specific situations. Provide examples of a range of information which is used in a vehicle repair environment. Discuss the different formats of information and devise activities which will aid the learners in identifying each one.			
Trade associations	2.1, 2.2	Provide information on a range of trade associations and devise a straightforward research activity to locate information on an organisation. Facilitate the learners in feeding back information on trade associations. Discuss and record the benefits of trade associations			
Automotive professional registers	3.1,3.2, 3.3	Provide information on, or arrange a guest speaker to discuss automotive professional registers, in addition to this promote how to qualify for professional registers and the benefits of them. Assist the learners' in joining trade organisations or qualifying for professional registers.			
Complete the learner worksheet	1.1 - 3.3	Provide supplementary materials to support the completion of the worksheet. Explain the layout of the worksheet and ensure the learners understand how to complete it.			
Theony practical specians, assessments, tutorial, feedback and directed study time (TOT): 14 hrs					

i neory, practical sessions, assessments, tutorial, feedback and directed study time (IQT): 14 hrs



UNIT TITLE: PREPARATION FOR RIDING A MOTORCYCLE OR MOPED

Overview: This unit will provide the learner with the knowledge which learner riders will need to know before they begin to ride a motorycle on a public highway. This includes applying for their first driving licence, becoming familiar with the Highway Code, arranging riding lessons and booking the riding test. Learning Outcomes: 1 1. Know the process of applying for their first driving licence 1 2. Know the meaning of a sample of road safety signs 1 3. Know the content of both the theory and practical riding tests 1 5. Know the content of both the theory and practical riding tests 1 5. Know the content of both the theory and practical riding tests 1 4. Applying for a first driving licence 1.1.1.4 1.1.1.4 1 1.1.1.4 9. Provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 9. Provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 9. Provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 9. Provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 9. Outcomestion and discuss the purpose of the highway Code 1.1.1.4 1.1.1.4	Level: 1 Gi	Guided Learning (GL): 7 Hrs				
to ride a motorcycle on a public highway. This includes applying for their first driving licence, becoming familiar with the Highway Code, arranging riding lessons and booking the riding test. 1. Know the process of applying for their first driving licence 2. Know the purpose of the Highway Code 3. Know the approse of the Highway Code 4. Know the oldentity an approved training body school and instructors 5. Know the oldentity an approved training body school and instructors 5. Know the oldentity an approved training body school and instructors 6. Subject AC 7 Present and discuss the application process for a first driving licence include: 9. how to apply - various stages / process 9. provisional licence - reasons for being prevented from ding prevented from ding test. 9. endition - post, online etc. 9. where to apply for a provisional licence 9. where to apply for a provisional licence 9. where to apply for a provisional licence 1.11.4 Present and discuss the purpose of the highway code to include: 9. where to apply for a provisional licence 9. requirements to qualify for a provisional licence	Overview: This unit will provide the lear	ner with the	knowledge which learner riders will need to know before they begin			
The Highway Code, arranging nding lessions and booking the riding test. Learning Outcomes: 2. Know the process of applying for their first driving licence 2. Know the meaning of a sample of road safety signs 4. Know how to identify an approved training body school and instructors 5. Know the content of both the theory and practical riding tests Subject AC Teaching Methods Applying for a first driving licence 1.11.4 1.11.4 Present and discuss the application process for a first driving licence to include: • new to apply - various stages / process • provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motoways etc. • prevented from riding • methods of application - post, online etc. • where to apply for a provisional licence - reasons for being prevented from riding • where to apply for a provisional licence - reasons for being prevented from riding • who is to locate the information. • present and discuss the purpose of the highway Code - may be prosecuted if discuss the purpose of the highway Code - may be prosecuted if disobeyed and used in evidence • urpopse of the Highway Code 2.12.3 Purpose of the Highway Code 2.12.3 • to graph provide further details where required. • tormats: audiobook,	to ride a motorcycle on a public highwa	y. This inclu	des applying for their first driving licence, becoming familiar with			
Learning Outcomes: 1. Know the purpose of the Highway Code 2. Know the meaning of a sample of road safety signs 4. Know the meaning of a sample of road safety signs 5. Know the meaning of a sample of road safety signs 6. Know the content of both the theory and practical riding tests 5. Know the content of both the theory and practical riding tests 6. Know the content of both the theory and practical riding tests 7. A control of a provisional licence include: 8. A control of a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. requirements to qualify for a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. requirements to qualify for a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. where to apply or a provisional licence - restriction not noting in event tools of application - post online etc. 9. where to apply and provisional licence - restriction and answer activities to enable learners to use and research the DVSA Web site to locate the information. 9. urpose of the Highway Code 2.12.3 9. urpose of the Highway Code 2.12.3 9. content - information for road users, pedestrians, and road signs 9. content - information dor road users, pedestrians, and road sig	the Highway Code, arranging riding les	the Highway Code, arranging riding lessons and booking the riding test.				
1. Know the process of applying for their first driving licence 2. Know the number of a sample of road safety signs 4. Know how to identify an approved training body school and instructors 5. Know the content of both the theory and practical riding tests Subject AC Teaching Methods Present and discuss the application process for a first driving licence to include: a. how to apply or a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. a. provisional licence requirements to qualify for a provisional licence - reasons for being prevented from riding a. where to apply for a provisional licence - reasons for being prevented from riding requirements to qualify for a provisional licence - reasons for being prevented from riding b. where to apply for a provisional licence - reasons for being prevented from riding reactive test on apply or a provisional licence - reasons for being prevented from riding b. uher to apply for a provisional licence - reasons for being prevented from riding reactive test of application - post, online etc. b. when / age to apply Devise learner worksheets, use group work and question and answer activities to enable learners to use and research the DVSA Web site to locate the information. Purpose of the Highway Code 2.1-2.3 Purpose of the Highway Code 2.1-2.3 <td>Learning Outcomes:</td> <td></td> <td></td>	Learning Outcomes:					
2. Know the menning of a sample of road safety signs 3. Know the menning of a sample of road safety signs 4. Know the menning of a sample of road safety signs 5. Know the content of both the theory and practical irding tests 5. Know the content of both the theory and practical irding tests 6. Know the content of both the theory and practical irding tests 7. Subject AC 7. Present and discuss the application process for a first driving licence to include: 8. how to apply - various stages / process 9. provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. requirements to qualify for a provisional licence - reactions. 9. where to apply for a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. where to apply for a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 1.1.1.4 9. being prevented from riding 9. where to apply for a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 9. content - information 1.1.1.4 9. being prevented from riding 9. content - information 1.1.1.4 9. content - information 1.1.1.1	1. Know the process of applying for t	heir first driv	ring licence			
3. Know the meaning of a sample or read safety signs 4. Know two is identify an approved training body school and instructors 5. Know the content of both the theory and practical riding tests Subject AC Teaching Methods Present and discuss the application process for a first driving licence to include: Present and discuss the application process for a first driving licence In to to apply - various stages / process provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. requirements to qualify for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence methods of application - post, online etc. when / age to apply Devise learner worksheets, use group work and question and answer activities to enable learners to use and research the DVSA Web site to locate the information. Purpose of the Highway Code 2.1-2.3 feagl implications in the Highway Code - may be prosecuted if disobeyed and used in evidence thore apple you you't tasks to cover AC 2.1-2.3 to enable learners to research the assessment orteria and present muter findings back to the group. Facilitate the learners feedback and provide further details where required. Purpose of the Highway Code teregal implications in the Highway Code - may be prosecut	2. Know the purpose of the Highway	Code				
4. How how to identify an approximation both the theory and practical iding tests Subject AC Teaching Methods Present and discuss the application process for a first driving licence to include: how to apply - various stages / process provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motoways etc. requirements to qualify for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence requirements to qualify for a provisional licence where to apply for a provisional licence where to apply for a provisional licence where to apply prevented from riding where to apply process and motoways etc. where to apply prover and question and answer activities to enable learners to use and research the DVSA Web site to locate the information. Purpose of the Highway Code 2.1-2.3 Purpose of the Highway Code 2.1-2.3 Road safety signs 3.1 Road safety signs 3.1 Approved training body school and inscuences	3. Know the meaning of a sample of	road safety	signs			
Section of body the lineary and produced name gests Subject AC Teaching Methods Subject AC Present and discuss the application process for a first driving licence to include: Applying for a first driving licence 1.1.1.4 Present and discuss the application process for a first driving licence - restrictions, use of red L plates, no carrying of unqualified passengers and motoways etc. Preguiments to qualify for a provisional licence - reasons for being prevented from riding • wher y date to apply • wher to apply for a provisional licence • methods of application - post, online etc. • when / age to apply • when / age to apply Devise learner worksheets, use group work and question and answer activities to enable learners to use and research the DVSA Web site to locate the information. Present and discuss the purpose of the highway code to include: • why it is essential - help reduce road casualtes • who it applies to - road users and pedestrians, and road signs. • formats: audiobook, app, paperback book, etc • use as group work tasks to cover AC 2.1-2.3 • formats: audiobook, app, paperback book, etc • use group work tasks to cover AC 2.1-2.3 • formats: audiobook, app, paperback book, etc • stapes • colours • meanings • formats: audiobook, app, neperback book, etc • sh	4. Know now to identify an approved	training boo	y school and instructors			
Present and discuss the application process for a first driving licence to include: Applying for a first driving licence Present and discuss the application process for a first driving licence to include: 1.1.1.4 Present and discuss the application process for a first driving licence to include: 1.1.1.4 Investor and the apply of a provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. 1.1.1.4 Investor application process for a first driving incent of application = post, online etc. 1.1.1.4 Investor apply of a provisional licence 1.1.1.4 Where to apply for a provisional licence 1.1.1.4 Investor application = post, online etc. 1.1.1.4 Where to apply for a provisional licence 1.1.1.4 Present and discuss the purpose of the highway code to include: 1.1.1.4 Present and discuss the purpose of the highway code to include: 2.1.2.3 Signs formats: audiobook, app, paperback book, etc 2.1.2.3 Ligger purpose of the different shapes and colours of road signs in use to include:	Subject		Teaching Methods			
Applying for a first driving licence I.1.1.4 how to apply - various stages / process provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. requirements to qualify for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence - reasons for being prevented from riding where to apply for a provisional licence when / age to apply Devise learner worksheets, use group work and question and answer activities to enable learners to use and research the DVSA Web site to locate the information. Present and discuss the purpose of the highway code to include: who it applies to - road users and pedestrians legal implications in the Highway Code - may be prosecuted if disobeyed and used in evidence content - information for road users, pedestrians, and road signs formats: audiobook, app, paperback book, etc use group, work tasks to cover AC 2.1-2.3 to enable learners to research the assessment criteria and present their findings back to the group. Facilitate the learners for the different shapes and colours of road signs in use to include: shapes colours in use to include: shapes colours in and atory gregulatory sequel imits Devise and use Warning, Mandatory and Instruction signs where learmers have to match the sign to the information.			Present and discuss the application process for a first driving			
Applying for a first driving licenceI.1.1.4• how to apply - various stages / process • provisional licence - restrictions, use of red L plates, no carrying of unqualified passengers and motorways etc. • requirements to qualify for a provisional licence - reasons for being prevented from riding • where to apply for a provisional licence • methods of application - post, online etc. • when / age to apply Devise learner worksheets, use group work and question and answer activities to enable learners to use and research the DVSA We be site to locate the information.Purpose of the Highway Code2.1.2.3Present and discuss the purpose of the highway code to include: • why it is essential - help reduce road casualties • who it applies to - road users and pedestrians • legal implications in the Highway Code - may be prosecuted if disobeyed and used in evidencePurpose of the Highway Code2.1.2.3• formatic. • resent and discuss the meanings of the different shapes and colours for a discuss the meanings of the different shapes and colours • meanings • mandatory • warning • regulatory • spaed limits Devise and use to include: • shapes 			licence to include:			
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ІМІ		Teaching Plan: Level 1 Award Transport Maintenance
		 CBT limits of engine capacity and power output restrictions (DL196) driver and Vehicle Standards Agency L plates rules - colour and positioning finding riding lessons and instructors - display badges, pricing, offers, reputation and courses. complaints about an approved instructor - Trading Standards Office and Citizens Advice Bureau (for poor service) Driver and Vehicle Standards Agency (for unacceptable behaviour and illegal instructors) rules for practising with family and friends - see current rules for supervising learner riders Use group work tasks to cover AC 4.1-4.2 to enable learners to research the assessment criteria and present their findings back to the group, for instance using the DVSA and training school providers Web sites to find the required information, facilitate the
Theory and practical riding tests	5.1-5.5	 Present and discuss the theory and practical motorcycle riding tests to include: Theory. how to book a test - indicate any additional needs or requirements prior to the test, for example dyslexia. content of the test - timescale, format and practise material how to locate a theory test centre - research methods, Government websites Practical. booking the riding test - highlight any additional needs or requirements before the test purpose of the test - ride safely in different road and traffic conditions, know the Highway Code and meet the standard required. documents to take to the test - timescale, manoeuvres, types of instruction, routes and know current riding standards motorcycle rules and suitability if used during a riding test - correct documentation, meet the required speed limits, correctly fitted L plates, no warning lights permanently illuminated - check current requirements Use group work tasks to cover AC 5.1-5.5 to enable learners to research the assessment criteria and present their findings back to the group, for instance using the DVSA Web site to find the required information, facilitate the learners feedback and provide further details where required.
	>	supplement it with additional information and handouts.
Theory, practical sessions, assessment	s, tutorial, f	eedback and directed study time (TQT): 10 hrs

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 10 hrs

UNIT TITLE: REDUCING RISKS WHEN DRIVING VEHICLES

Level:1	uided Learni	ing (GL): 14 Hrs		
Overview: This unit is aimed at pre-learner drivers and novice drivers. The unit content will provide the learner with the				
knowledge and skills, which will aid in them in reducing risks by preparing the vehicle and taking responsibility for their behaviour when planning to learn to drive and driving vehicles.				
Learning Outcomes:				
1 Know different types of vehicle pre	-use checks			
2. Know the consequences of failing t	o carryout pr	e-use vehicle checks		
3. Know the how to reduce risks when	driving vehi	cles		
Subject	AC	Teaching Methods		
Pre-use vehicle checks	1.1, 1.2	Discuss the importance of pre-use vehicle checks. Use video footage or images to show the types of checks which must be carried out. Facilitate the learners in groups to produce a list of pre-use checks. Provide vehicle support information to highlight the different types of fluid and coolants which need checking and adjusting. Use real vehicles, images or video footage to support how to top- up the fluid and coolant levels. Produce worksheets which support and record the processes.		
The consequences of failing to carry out pre-use vehicle checks	2.1	Give examples of the consequences of failing to carry out pre-use vehicle checks and use straightforward scenarios to highlight the importance of meticulous checks. These will include: vehicle breakdowns poor vision accidents / collisions fines and convictions leaks unpredictable vehicle handling Facilitate the learners in completing and feeding back on the scenarios.		
How to reduce risks when driving vehicles	3.1	Discuss and devise exercises which promote how to reduce risks when driving vehicles. Support the session with guest speakers, for example, road safety representatives. Record the main points of the session and make copies for the learners. Promote the idea of putting the lists in the learners own vehicle or a vehicle which they purchase in the future as a recap on how to reduce risks when driving.		
Complete the learner worksheet	1.1 - 3.1	Provide supplementary materials to support the completion of the worksheet. Explain the layout of the worksheet and ensure the learners understand how to complete it.		
Theory, practical sessions, assessme	nts, tutorial, f	eedback and directed study time (TQT): 17hrs		

01-05-16 v1



UNIT TITLE: INTRODUCTION TO MOBILE AUTOMOTIVE REPAIR TRADES

Level:1	Guided Learning (GL): 10 Hrs			
Overview: This unit will provide the learner with the knowledge of different types of mobile vehicle repair services and				
their role within the automotive industry.				
Learning Outcomes:				
1. Know a range of automotive trade	s which carry	out mobile repairs		
2. Know the benefits of mobile repair	r trades			
3. Know the limitations of mobile re		Ta a chin e Matha da		
Subject	AC			
		Provide evidence of and discuss the variety automotive trades		
		Facilitate the learners in carrying out straightforward research (in		
Automotive trades which carry out		drouns) to highlight examples of the services which each of the		
mobile repairs	1.1, 1.2	trades provide.		
		Discuss and record the feedback from each group.		
		Arrange guest speakers to provide information on mobile repairs.		
		Facilitate a question and answer session.		
		Discuss and record the advantages of mobile repair services to		
		include:		
		The customer seeing the repair taking place		
The benefits of mobile repair trades	2.1	Ihe customer being able to communicate directly with the technician		
		The reneir being carried out at a place convenient to the		
		 The repair being carried out at a place convenient to the customer therefore, saving time and effort for the customer. 		
		Discuss and facilitate group activities to highlight instances where		
		a mobile repair service may not be recommended, this may		
		include:		
		size and extent of the repair		
The limitations of mobile repair		suitability of the working environment		
trades	3.1	working space / area which is available		
		• legal implications, for example fumes, noise or the location of		
		the vehicle		
		Record the results of the discussion.		
		which are available in mobile repair trades		
		Provide supplementary materials to support the completion of the		
Complete the learner worksheet		worksheet.		
	1.1-3.1	Explain the layout of the worksheet and ensure the learners		
		understand how to complete it.		
Theory, practical sessions, assessm	ents, tutorial, f	eedback and directed study time (TQT): 11hrs		

UNIT TITLE: AIR AND LIQUID COOLING SYSTEM COMPONENTS AND OPERATION

Level: Level 1 Guid	ded Learnii	ng (GL): 15 Hrs			
Overview: This unit introduces learners to the principles of engine liquid cooling and air-cooling components and					
operation. It covers identifying the m	ain compo	nents used in liquid cooling and air- cooling systems and the purpose			
and function of these components.		iting of some ing and sofitting liquid cooling systems compared and			
The learner also has to carry out practical activities of removing and refitting liquid cooling system components and					
Learning Outcomes:					
1 Know about anging liquid applied	and air oo	alad systems			
2 Know how engine cooling system	, anu air-cu s onerate	oleu systems			
4. Know about environmental consi	derations v	vhen disposing of waste materials			
Subject	AC	Teaching and Learning Methods			
-		Present and discuss the purpose of the engine cooling system			
		components: both liquid and air cooled systems, include:			
		coolant – water and antifreeze mixture			
		radiator and radiator cap			
		thermostat			
		expansion tank			
Engine liquid cooling and air-cooled		pipes and hoses			
systems	1.1-1.2	gaskets and sealing rings			
		water pump and drive belt			
		 cooling fan – mechanical and electric 			
		vehicle heater			
		Introduce a range of components through, presentations, handling			
		of components, use of video`s and demonstrations on vehicles.			
		Devise questions and answers activities, group work, and use of ILT			
		where appropriate.			
		Explain the operating principles of:			
		conduction, convection and radiation principles therma sinker principle			
		thermo-siphon principle			
		pressurised systems redictor			
		radiator processo con			
		radiator pressure cap			
		thermostat			
Operation of Engines Cooling		Internioslat machanical and electric fanc			
System	2.1				
System		 Idii heat even and ere 			
		air flow ducting			
		 cooling fins 			
		Use presentations, video`s and demonstrations of components to			
		demonstrate the concepts of operation.			
		Devise questions and answers activities, group work, and use of ILT			
		to check on learners understanding and knowledge.			
		Provide support and feedback where necessary.			
Environmental considerations when disposing of waste materials	4.1	Identify legal and organisational responsibilities and safe disposal			
		practices regarding contaminated material and coolant.			
		Ubserve safe disposal of contaminated material and coolant,			
		question learners knowledge and understanding on processes and			
		Advise and coach the learners to complete the workshoot and			
Complete Learner Worksheet	1.1-5.1	supplement it with additional information and handouts			
	1				

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 20 hrs

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UNIT REF: L1MV22 UNIT TITLE: LUBRICATION SYSTEM COMPONENTS AND OPERATION

Level: Level 1 Gui	ded Learni	ng (GL): 15 Hrs			
Overview: This unit introduces learners to the principles of engine lubrication systems, components and operation.					
It covers identifying the main components used in lubrication systems and the purpose and function of these					
The learner also has to carry out pra	ctical activ	ities of removing and refitting lubrication system components.			
Learning Outcomes:					
1. Know about engine lubrication s	systems				
2. Know how engine lubrication sys	stems oper	ate			
4. Know the environmental conside	rations wit				
Subject	AC	Teaching and Learning Methods			
		Present and discuss the purpose of the engine lubrication system components, include:			
		 lubricants – purpose and function: cooling, reduce friction, remove by-products, reduce corrosion 			
		 Iubricant types: composition, natural & synthetic, grades, viscosity, properties 			
Components Used In Engine	1.1-1.2	engine sump			
Lubrication Systems		oil pump and strainer			
		pressure relief valve oil filter			
		oil galleries			
		Introduce a range of components through, presentations, handling			
		of components, use of video`s and demonstrations on vehicles.			
		If T where appropriate			
	2.1	Explain the operating principles of:			
		spray, splash, pressurised lubrication			
		boundary lubrication			
		• sump			
		oil filter			
Operation of Engine Lubrication		oil pressure relief valve			
System		 pressure monitoring (warning light, gauge) 			
		Use presentations, video`s and demonstrations of components to			
		demonstrate the concepts of operation.			
		ILT to check on learners understanding and knowledge.			
		Provide support and feedback where necessary.			
Environmental considerations when disposing of waste materials	4.1	Identify legal and organisational responsibilities and safe storage			
		and disposal practices regarding contaminated material and oils.			
		learners knowledge and understanding on processes and			
		procedures			
Complete Learner Worksheet	1.1-5.1	Advise and coach the learners to complete the worksheet and			
	I	supplement it with additional information and handouts.			

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 20 hrs

UNIT TITLE: VEHICLE DRIVELINE MAINTENANCE

Level: Entry 3	Guided Learning (GL): 17 Hrs			
Overview: This unit introduces the learner to vehicle transmission systems and covers the basic identification of the				
major items of the unit and their function. It also allows the learner to use workshop manuals to locate specific data.				
2. Know about vehicle drivelines				
3. Know about vehicle gearboxes				
Subject	AC	Teaching Methods		
Vehicle Drivelines	2.1	Study light vehicle drivelines and the component parts making up the drive chain. Use animations/videos and prepare PowerPoint presentations and interactive quizzes to enhance learning. Learners may also benefit from a demonstration with a sectioned gearbox or driveline components laid out as a resource, so that they can track each stage of the driveline process to gain understanding of the system and its operation. Explain the layout of vehicle driveline components using a demonstration vehicle on a ramp/lift so learners can access it, and ask learners to identify major components in a driveline along with stating a brief explanation of their function.		
Vehicle Gearboxes	3.1	Identify the main components found in basic manual and automatic gearboxes using sectioned gearboxes. Identify component positions using vehicles on lifts, ramps etc and ask learners to identify each component and briefly state their function. Use videos to show how energy from the engine is transmitted into motion using a gearbox. Confirm learner understanding with use of Q&A.		
Complete the learner worksheet	1.1-4.3	Explain the requirements and layout of the worksheet.		
Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 22 hrs				

UNIT TITLE: ROUTINE VEHICLE MAINTENANCE PROCESSES AND PROCEDURES

Level: Entry 3 Guided Learning (GL): 17 Hrs Overview: This unit introduces learners to the principles of routine vehicle maintenance on vehicles with 4 wheels or more. It requires learners to know the tools and equipment that would be used during routine vehicle maintenance. It also covers the procedures and methods that must be used to ensure this is carried out effectively. The final outcome of the unit is concerned with the learner being able to safely and correctly carry out routine vehicle maintenance. Learning Outcomes:

2. Know vehicle components and systems that require routine maintenance

Subject	AC	Teaching Methods
Know vehicle components and systems that require routine maintenance	2.1-2.2	Identify the vehicle systems and components on a modern vehicle that require routine maintenance. Using a vehicle, demonstrate to the students each area that requires maintenance and explain each check. Introduce a logical approach to carrying out the checks using a check sheet within an acceptable time. Observe and question students on their knowledge of the systems and carrying out the checks.
Know routine maintenance requirements for vehicle systems and components	3.1	Have the students use appropriate data sources for different vehicles to identify the maintenance requirements of specific vehicles. From the data question students and ask them to select the range of tools and equipment that would be required to carry out vehicle maintenance. Observe students selecting appropriate tools and using them correctly.
Complete the learner worksheet	1.1-3.1	Provide supplementary materials and handouts. Explain the requirements and layout of the worksheet.

Theory, practical sessions, assessments, tutorial, feedback and directed study time (TQT): 22 hrs