# AUTOMOTIVE SECTOR Motorcycle Maintenance and Repairs SUMMARY OF LEVEL 2 (AS CLASSIFIED)

# **MANDATORY AND OPTIONAL UNITS**

S/NO/UNIT	REFERENCE NO.	NOS TITLE	CREDIT VALUE	LEARNING HOUR	REMARKS
1	AUT/MTC/001/L2	Health, Safety and Environment	2	20	Mandatory
2	AUT/MTC/002/L2	Communication in Auto Motor-cycle	2	20	Mandatory
3	AUT/MTC/003/L2	Application of Mechanical Fastening Techniques	3	30	Mandatory
4	AUT/MTC/004/L2	Tools and Materials	3	30	Mandatory
5	AUT/MTC/005/L2	General Assembly Work	2	20	Optional
6	AUT/MTC/006/L2	Engine System Maintenance	2	20	Mandatory
7	AUT/MTC/007/L2	Drive Train and Braking system repairs	3	30	Mandatory
8	AUT/MTC/008/L2	Wheels, tyres, steering & Suspension	3	30	Optional
9	AUT/MTC/009/L2	Electrical works, Indicators and Switches	3	30	Optional
10	AUT/MTC/010/L2	Bodywork	6	60	Optional
	TOTAL C	REDIT VALUE/HOURS	29	290	

NOTE: Learners are required to select 2 Units from the optional units

**Qualification Purpose:** This Qualification covers the competence and knowledge learners need to carry out maintenance, service and general repairs of auto motor cycles. It includes identification of faults and replacement of mechanical and electrical components safely. The qualification also ensures that the learner is aware of health, safety & environment, communicate, learn the use of tools and their maintenance .It enables a candidate to dismantle 'live' components, for example engine, gearbox and back axle.

Unit: 001 HEALTH, SAFETY AND ENVIRONMENT (HSE) IN AUTOMOTIVE MOTOR CYCLE INDUSTRY

Unit reference number: AUT/MTC/001/L2

QCF level: 2

Credit value: 2

**Guided learning hours:** 20

**Unit Purpose:** This unit is about the application of knowledge and skills to competently carryout daily activities in an automotive motorcycle workshop while observing relevant health & safety regulations.

# Unit assessment requirements/evidence requirements

This assessment can only be carried out in a real automotive motorcycle workplace environment where automotive activities are carried out. Simulation is not allowed in this unit and level.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Project
- 6. Work product

L.O (Learning outcome)			Evidence Type				Evidence Ref Page number				
L.O:1 Apply safe work practices	1.1	Use safe work practice and									
and instructions.		instructions									
	1.2	Identify safety signs and									
		symbols									
	1.3	Use signs and symbols correctly									
	1.4	Carry out safe work practices									
		and instructions									
	1.5	Work in accordance with health									
		and safety practices.									
L.O 2: Demonstrate the											
understanding of safety hazards	2.1	Identify work environment									
and risks		hazards									
	2.2	State types of hazard and risks									
		in surface area									
	2.3	State types of hazards and risks									
		in height and depth									
	2.4	Apply regulations as it relates to									
		hazards and risk in work									
		environment.									
L.O.3: Demonstrate the usage											
of personal protective	3.1	Identify the types of PPEs									
equipment (PPE)	3.2	Use PPEs in accordance with									
		instructions									
	3.3	Select appropriate PPEs									

	2.4	Maintain DDEs after an				T		
LO 4. Apply approximately	3.4	Maintain PPEs after use	$\vdash$	_		+		
L.O. 4: Apply appropriate	4.1	Locate first aid facility				1		
actions during accident/injury	4.2	Use basic dressing materials						
	4.3	Respond to supervisor given						ì
		instructions						
	4.4	Report accident/injury to the						
		appropriate supervisor						
L.O. 5: carry out safe work habit	5.1	Use safe access and exit routes						
and clean work environment		in the work environment						1
	5.2	Identify appropriate working						
		tools, materials and equipment						1
	5.3	Use tools and equipment safely						
		in accordance with the						1
		supervisors instructions						1
	5.4	Return all tools, equipment and						
		un used materials for						il.
		appropriate storage						Ì
	5.5	Carry out general housekeeping						
		of work environment						i
	5.6	Dispose all wastes appropriately						
		to designated waste facilities						il.
L.O: 6. Apply correct methods	6.1	Identify lifting and stacking						
of lifting, loading/offloading and		techniques						İ
stacking of materials	6.2	Demonstrate appropriately						
		lifting techniques in loading and						Ì
		offloading of materials without						ì
		assistance						il.
	6.3	Demonstrate correct lifting and						
		loading techniques with						ì
		mechanical assistance						il.
	6.4	Stack materials correctly						
L.O: 7 Demonstrate the	7.1	Explain the effect of gas, liquid						
understanding of the effects of		and solid materials on self and						Ì
materials on self and work		work environment						ì
environment	7.2	Identify various types of						
		protection against gaseous,				1		
		liquid, and solid materials on				Ì		
		self and work environment						1
	7.3	Explain appropriate legislative		1				
		standards with regards to safety						ı
	I					1	1	

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

#### **UNIT 002: COMMUNICATION IN AUTO MOTORCYCLE WORKSHOP**

Unit reference number: AUT/MTC/002/L2

QCF level: 2

Credit value: 2

Guided learning hours: 20

**Unit Purpose:** To establish an effective communication system that is responsive and subject to change in meeting workers and employer's needs, in work environment

# Unit assessment requirements/evidence requirements

This assessment can only be carried out in a real automotive motorcycle workplace environment where automotive activities are carried out.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)

L.O (Learning outcome)	Criteria:-		Evidence Type				Evidence Ref Page number				
L.O:1.0 Use a non-complex communication system in a work	1.1	Use a verbal means to pass on necessary information									
environment	1.2	Use non-verbal means to convey necessary information e.g. body language, signs									
	1.3	Interpret symbols and signs appropriately									
L.O: 2.0 demonstrate the											
ability to source information in a work environment	2.1	Identify the source of information in the work environment									
	2.2	Relate effectively with the source of information									
	2.3	Use the different information flow systems in a work environment									
	2.4	Use information gathered to avoid challenges in a work situation									
	2.5	Report findings appropriately in accordance with laid down procedure in the work environment Cards, Flip Chart									
L.O: 3.0 Demonstrate the use											

of various communication means in a work environment	3.1	Locate the various communication equipment in the work environment					
	3.2	Use effectively the various communication equipment in a work environment					
	3.3	Pass information effectively to the right personnel					
	3.4	Obey instructions in line with ethics of the work environment					

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

Unit: 003

# **FASTENING (JOINING) TECHNIQUES USED IN AUTOMOTIVE SERVICES AND REPAIR OPERATIONS**

Unit reference number: AUT/MTC/003/L2

QCF level: 2

Credit value: 3

**Guided learning hours:** 30 HOURS

**Unit Purpose:** This unit is about joining materials effectively using mechanical joining by fastening techniques

# Unit assessment requirements/evidence requirements:

This assessment can only be carried in a real workplace environment in which automotive service, repair, and mechanical joining by fastening operations are carried out.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Work products
- 6. project

L.O (Learning outcome)	Criteria:-		Evidence Type			е	Evidence Ref Page number			
L.O:1.0 Undertake safety precautions required in metal joining/fastening	1.1	Use the appropriate personal protective equipment when carrying out mechanical joining operations.								
	1.2	Protect the vehicle and its contents effectively when carrying out mechanical joining operation								
	1.3	Ensure that the tools, equipment and PPE you require are in a safe working condition								
	1.4	Dress and protect the repaired area to inhibit corrosion where applicable								
	1.5	Clean and store PPE and equipment in appropriate manner								
	1.6	Carry out mechanical joining operations following rules and regulations								

	1.7	Conform to health safet	y and						
		legal requirements							
L.O: 2.0 Select tools and									
equipment for carrying out	2.1	Select the correct tools a	and						
mechanical joining operations		equipment for carrying of	out						
		mechanical joining oper	ations						
	2.2	Ensure that the tools an	d						
		equipment and PPE you	require						
		are in a safe working co	ndition						
	2.3	Check stability of tooling	3						
L.O: 3 Carry out	3.1	Prepare material and ali	Prepare material and align to						
joining/fastening operations		enable suitable joint to be							
		achieved							
	3.2	Treat meeting flanges b	efore						
		joining							
	3.3	-	Set up equipment to carry out						
		mechanical joining oper							
		such as:							
		check suitability of joinir							
		technique	.0						
		check suitability of tooli	ng						
		check consumables are	_						
	3.4	Check integrity of the jo							
	3.5	Carry out mechanical joi	ining						
	3.5	operations within the ag	_						
		timescale	siccu						
	3.6	Identify common fasten	or						
	3.0	failures	er						
		Tallules							
Learners Signature:			Date:						
Loannoi o oignataro.			Date.						
Assessors Signature:			Date:						
IQA Signature (if sampled)			Date:						
									_
EQA Signature (if sampled)			Date:						

**UNIT: 004 SERVICE TOOLS AND EQUIPMENT** 

Unit reference number: AUT/MTC/004/L2

QCF level: LEVEL 2

**Credit value: 3 CREDITS** 

**Guided learning hours:** 30 HOURS

**Unit Purpose:** This unit is about the basic use of tools, materials and waste disposal methods relevant to the automotive motorcycle sector

# This unit is about;

- 1. Apply manufacturer's information
- 2. Apply safe and healthy working practices
- 3. Selecting materials and equipment
- 4. Service and maintenance of workshop tools & equipment
- 5. Coordinate storage of workshop tools and equipment

## Unit assessment requirements/evidence requirements

Assessment must be carried out in real workplace environment in which automotive motorcycle services and repair operations are carried out. Simulation is not allowed in this unit and level.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Project
- 6. Work products

L.O (Learning outcome)	Criter	ia:-	Evidence Type		Evidence Ref Page number			ge		
L.O:1. Select workshop tools and materials	1.1	Identify types for workshop hand tools such as: marking tools, cutting tools, metal removing tools, fastening tools								
	1.2	Identify functions of workshop hand tools listed above								
	1.3	Select correct tools for marking operations								
	1.4	Select correct tools for cutting operations								
	1.5	Select correct tools for metal removing operations								
	1.6	Select correct tools for fastening operations								

L.O: 2. Use hand tools							
	2.1	Carry out marking out					
		operations		_			
	2.2	Carry out filing operations					
	2.3	Carry -out cutting operations					
	2.4	Carry -out fastening operation.					
	2.5	Loose bolts and nuts with					
		correct tools					
	2.6	Identify problems associated					
		with incorrect tools use					
L.O. 3 Select service materials	3.1	Identify materials for servicing					
correctly		in accordance to the					
		manufacturer's specification					
		such as :engine oil, differential					
		oil, filters, plug, grease					
	3.2	Identify materials for repairs					
		such as: gaskets, sealants, seals					
		Fittings, fasteners					
	3.3	Select correct personal					
		protective equipment for					
		different operations					
L.O. 4: Maintain workshop tools	4.1	Service tools as specified by					
		manufacturer's /workshop					
		requirement.					
	4.2	Adjust tools as specified by					
		manufacturer's /workshop					
		requirement.					
	4.3	Store tools as specified by					
		manufacturer's /workshop					
		requirement					
	4.4	Clean used tools					
		1					_

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**UNIT: 05 GENERAL ASSEMBLY WORK** 

Unit reference number: AUT/MTC/005/L2

QCF level: LEVEL 2

Credit value: 2

Guided learning hours: 20 HOURS

**Unit Purpose:** This unit is about conducting routine assembly, adjustment, coupling and test-running activities.

# Unit assessment requirements/evidence requirements:

This assessment can only be carried in an environment in which automotive motorcycle assembly are carried out in a commercial environment effectively.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Project
- 6. Work product

L.O (Learning outcome)	Criter	ia:-	Evidence Type		ence R			Evidence Ref Page number		
L.O:1. Apply basic knowledge	1.1	Identify types of Motorcycle								
of assembly work		Cab								
		Pickup								
	1.2	Identify brand of Motorcycle								
		Bajaj								
		TVS								
		Piaggio								
	1.3	Examine the motor cycle								
		system and components								
		following the manufacturer's								
		approved methods								
L.O: 2. Assemble motorcycle										
components	2.1	Select correct tools/equipment								
		for assembly of a motor cycle								
	2.2	Identify genuine motor cycle								
		parts in line with								
		manufacturer's specification								
	2.3	Apply correct tools in line with								
		manufactures specification.								
	2.4	Carry out motor cycle assembly								
		activities such as:								
		Electrical wiring, Tyres, wheels								
		Upholsteries								
	2.5	Carry-out test- running								
		Engine condition, Braking								

	system, Electrical system Suspension	n				
Learners Signature:		Date:				
Assessors Signature:		Date:				
IQA Signature (if sampled)		Date:				
EQA Signature (if sampled)		Date:				

**UNIT: 06 ENGINE SYSTEM REPAIRS** 

Unit reference number: AUT/MTC/006/L2

QCF level: LEVEL 2

Credit value: 2

Guided learning hours: 20 HOURS

**Unit Purpose:** This unit is about identification of faults, repairs, service, examination, adjustment and replacement activities in motorcycle engine.

# Unit assessment requirements/evidence requirements:

This assessment can only be carried in a real workplace environment in which automotive motorcycle service and repair operation are carried out in a workshop environment effectively. Live engines and functional motorcycle shall be provided.

- 1. Direct Observation / (DO)
- 2. Question and Answer/oral questions (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Project
- 6. Work product

L.O (Learning outcome)	Criter	ia:-	 vide vpe	 e	Evidenc Ref Pag number			ige	
L.O:1. Demonstrate knowledge of engine configuration.	1.1	Identify types of motorcycle engine							
	1.2	Identify components of a motor cycle engine.							
	1.3	State the function of each component of a motorcycle engine							
	1.4	Describe the operations of a motorcycle engine.							
L.O: 2. Service engine	2.1	Examine the motorcycle system and components following the manufacturer's approved methods							
	2.2	Select correct tools/equipment for servicing a motorcycle engine							
	2.3	Identify genuine filter, plug and lubricants in line with manufacturer's specification							

	2.4	Carry out motorcycle se	rvicing				
		activities such as:	J				
		Spark plugs cleaning					
		Fuel filter cleaning					
		Air filter cleaning					
	2.5	Change engine oil					
L.O. 3 Repair carburettor	3.1	Identify the faults by vis	ادین		$\exists$		
L.O. 5 Repair carburettor	3.1	inspection	luai				
	3.2	Identify the faults Obse	nyation		-		
	3.3	Identify fault sound	ivation		-		
	3.4	Use manufacturer's serv	/ice		-		
	3.4	information	VICC				
	3.5	Identify tools / equipme	nt for		-	-	
	3.3	motorcycle carburettor					
	2.6				$\dashv$	_	
	3.6	Dismantle the carburett					
		clean jets/ nut of blocka	_		_		
	3.7	Replacement of worn of	r				
		damaged parts.			_	4	
	3.8	Assemble the carburett			_	$\bot$	
L.O. 4: Repair injector	4.1	Identify the faults by vis					
		inspection, direct Obser	vation				
		and sound			_		
	4.2	Use manufacturer's serv	vice				
		information					
	4.3	Identify tools/equipmer					
		motorcycle injector serv					
	4.4	Dismantle the injector t	o clean				
		jets/ nut of blockage.			_		
	4.5	Replace worn or damag	ed parts		_		
	4.6	Assemble the injector			_		
O. 5: Overhaul motorcycle	5.1	Identify the need for ov					
engine		motorcycle engine by cu	ustomer				
		complain/test-run the					
		motorcycle.			$\perp$		
	5.2	Select correct tools for					
		dismantling motorcycle	engine				
	5.3	Dismantle the engine ur	nit				
	5.4	Check parts for replacer	ment or				
		re-use					
	5.3	Couple the engine back					
	5.4	Test run the motor cycle	2				
earners Signature:			Date:				
ssessors Signature:			Date:				
QA Signature (if sampled)			Date:	 		 	
EQA Signature (if sampled)			Date:				

**Unit: 007 DRIVETRAIN & BRAKING SYSTEM REPAIRS** 

Unit reference number: AUT/MTC/007/L2

QCF level: 2

Credit value: 3

**Guided learning hours:** 30

**Unit Purpose:** This unit is about identifying and rectifying faults within the powertrain, rolling chassis and braking system. It includes the procedures of inspecting and assessing the conditions and overhauling of the transmission system in line with manufacturers' specifications

# Unit assessment requirements/evidence requirements

This assessment can only be carried out in a real automotive motor cycle workplace environment. Assessment method will include:

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Work product
- 6. Project

L.O (Learning outcome)	Criter	ia:-	Evidence Type				ride ef Pa umb	_		
L.O:1. Carry out repairs on chain and sprockets of motor	1.1	Identify the features of the motorcycle gear box								
cycle.	1.2	Carry-out adjustment of chain & sprocket								
	1.3	Identify faults of chain & sprocket								
	1.4	Select correct tools/equipment								
	1.5	Dismantle the chain & sprocket								
	1.6	Replace damaged parts								
		Sprocket								ı
		chain								ı
		adjuster								ı
		bearing(hub)								
	1.7	Assembly the unit								
	1.8	Test run the motor cycle								
L.O. 3 Carry out clutch repairs.	3.1	Identify faults in the clutch unit								
	3.2	Dismantle clutch unit								
	3.3	Replace damaged parts such as:								
		clutch plate, clutch drive								ı
		clutch bearing and bushings								
		clutch housing, dumper rubber								
	3.4	Grind the clutch housing								
	3.5	Dismantle the clutch plate								

	3.6	Repair the rivet of the clutch plate					
	3.7	Couple the clutch unit					
	3.8	Test run the motor cycle					
L.O. 4 Carry out braking system repairs.	5.1	Identify faults in the braking system.					
	5.2	Use correct tools					
	5.3	Dismantle braking system					
	5.4	Adjustment of brake liners with the correct tools					
	5.5	Replace damaged parts such as brake liner/springs					
	5.6	Couple the braking system					
	5.7	Test the brake for functionality.					

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**UNIT: 008 WHEEL TYRES, STEERING & SUSPENSION** 

Unit reference number: AUT/MTC/008/L2

QCF level: 2

Credit value: 3

Guided learning hours: 30

**Unit Purpose:** This unit is about inspecting standard motorcycle tyres and

wheels to assess their conditions and suitability for repair and carrying out necessary repair, replacement or refitting activities. It includes replacement and repair procedures for wheels, tyres,

steering & suspension.

## Unit assessment requirements/evidence requirements;

This assessment can only be carried out in a real automotive motorcycle workshop environment in which replacement and repair procedures for wheels, tyres, steering & suspensions are carried out.

- 1. Direct Observation / oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Project
- 6. Work product

L.O (Learning outcome)	Criter	ia:-	Evidence Type																																						e I Pa	ide Ref ge ıml	
L.O:1 Carry-out steering repairs	1.1	Service the steering bearings such as (top and bottom bearings)																																									
	1.2	Service the steering bushings																																									
	1.3	Identify faults relating to steering																																									
	1.4	Dismantle the steering unit																																									
	1.5	Replace damaged parts such as: steering bearing (top and bottom) steering bushings																																									
	1.6	Couple the unit																																									
	1.7	Test run the motorcycle																																									
L.O: 2. Carry out repair on																																											
motorcycle suspension system	2.1	Identify faults in shock absorber																																									
	2.2	Identify faults in suspension bushings																																									
	2.3	Select correct working tools																																									
	2.4	Dismantle suspension unit																																									

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	2.5	Replace damaged parts such as:				
		shock absorber(Oil seal and spring)				
	2.6	Replace shock absorber bushings				
	2.7	Test run the motorcycle				
L.O.3: Carry out repair in tyre	3.1	Identify types and tubes used in				
and tubes		motorcycles				
	3.2	Use correct tools and techniques				
	3.3	Remove tire from the wheel				
	3.4	Check for leakages				
	3.5	Repair tube and tyre				
	3.6	Inflate tyre according to the				
		manufacturer's specification				
L.O. 5: Carry out wheel	5.1	Check wheel alignment				
alignment repairs.	5.2	Identify causes of mis-alignment				
	5.3	Remove wheel from the body				
	5.4	Check the bearing and				
		bushing/spooks				
	5.5	Replace the damaged bearing and				
		bushing				
	5.6	Assemble the wheel				

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

## UNIT: 009 REFITTING OF ELECTRICAL WORK, SWITCHES AND INDICATORS

Unit reference number: AUT/MTC/009/L2

QCF level: 2

Credit value: 3

**Guided learning hours:** 30

**Unit Purpose:** This unit is about the appropriate removal and fitting of basic electrical components to motorcycles. It is also about checking the operation (s) of the components fitted and the functionality of the indicators.

# Unit assessment requirements/evidence requirements

This assessment can only be carried out in a real motorcycle workplace environment in which the removal and fitting of basic mechanical, electrical components are carried out.

- 1. Direct Observation (DO)
- 2. Question and Answer/ oral questions (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Work product

L.O (Learning outcome)	Criter	ia:-	Evidence Type																														e F Pa	
L.O: 1 Carry-out repairs in motorcycle wiring system	1.1	Apply manufacturer's wiring system																																
motorcycle wiring system	1.2	Identify wires by colours																																
	1.3	Select correct working tools																																
	1.4	Trace faults																																
	1.5	Rectify faults																																
	1.6	Replace damaged parts																																
	1.7	Test for functionality																																
L.O: 2. Carry out battery																																		
maintenance	2.1	Identify the features of a battery																																
	2.2	Select correct tools/instruments																																
	2.3	Identify areas of fault such as:																																
		rust of battery terminals																																
		level of acid, voltage level																																
	2.4	Rectify the faults																																
	2.5	Replace the battery																																
	2.6	Test for functionality																																
L.O.3: Replace indicators and switches	3.1	Identify switches/indicators in motorcycle																																
	3.2	Test the switches for functionality																																

	3.3	Check the indicators for functionality with correct tools/equipment				
	3.4	Identify faults in switches with correct instrument				
	3.5	Identify faults in indicators with correct instrument				
	3.6	Replace damaged parts such as: Bulbs, switches, indicators, fuses Wires				
L.O. 4 Carry-out electrical kick	4.1	Identify the fault				
starter work	4.2	Remove the kick starter with correct tools				
	4.3	Replace the damage part of the kick starter				
	4.4	Couple the kick starter to motorcycle				
	4.5	Crank the motor cycle				

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**Unit: 010 MOTORCYCLE BODY WORKS** 

Unit reference number: AUT/MTC/010/L2

QCF level: 2

Credit value: 6

**Guided learning hours:** 60

# **Unit Purpose:**

This unit is to apply the knowledge and skills needed to improve the physical appeal of a vehicle and also to protect it from damages. It includes beautifying both the interior and exterior part of the motor vehicle.

# Unit assessment requirements/evidence requirements

This assessment can only be carried out in a real automotive workplace environment where automotive activities are carried out. Simulation is not allowed in this unit and level.

- 1. Direct Observation (DO)
- 2. Question and Answer/ oral questions (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Work product (WP)

L.O (Learning outcome)	Learning outcome) Criteria:-		Evidence Type			Evidend e Ref Page numbe		
L.O: 1 Carry-out basic panel beating work	1.1	Carry-out visual inspection of the body of a motorcycle						
	1.2	Identify areas that requires panel beating in the body						
	1.3	Carry-out marking-out						
	1.4	Cut suitable metal in line with manufacturer's specification						
	1.5	Prepare joining surfaces						
L.O: 2 Carry out basic welding								
operations.	2.1	Identify types of welding machines for motorcycle body welding						
	2.2	Select correct welding tools/equipment						
	2.3	Carry-out welding operations						
	2.4	Check the welded joints for defects						
	2.5	Grind welded surface						
L.O.3: Carry out	3.1	Identify areas requiring body filler						
spraying/painting operations.	3.2	Apply correct mix of body filler						
	3.3	Carry-out polishing operations						

	3.4	Apply priming chemicals				
	3.5	Carry-out spraying operations				
L.O. 4 Carry out upholstery work in motorcycle	4.1	Remove auxiliary components with correct tools such as: seat cover, Plastic parts				
	4.2	Select auxiliary component				
	4.3	Replace auxiliary component				

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date: