NATIONAL CERTIFICATE:

Automotive Motor Mechanic

SAQA - 97990

NQF Level 4

Workplace Integrated Learning Logbook

LEARNER NAME: _____

LEARNER ID: _____

LEARNER CONTACT NUMBER: _____

Declaration of Authenticity:

I declare that the information contained in this Logbook is true and accurate record of my workplace activities and that they indicate my work.

Learner Signature ……Date ……..

Automotive Motor Mechanic: Workplace Integrated Learning Logbook

Module Name	Scope Coverage	
653101000-WM-01, Routine scheduled services, NQF Level 2, Credits 18		
	WE01-Observe and assist a competent artisan to service at least three different models of light motor vehicles, for a minimum of 20 hours	
	WE02: Service at least three different models of light motor vehicles, under the direct guidance and supervision of a competent artisan, for a minimum of 100 hours	
	WE03: Independently service at least three different models of light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 60 hours	
		WA0101: Gather the necessary service information, plan the service, compile the parts list and draw the parts
		WA0102: Conduct risk assessments and perform vehicle lock- out processes where applicable
		WA0103: Conduct pre-service inspections and identify and report any problems
		WA0104: Carry out services in accordance with the manufacturer's service specifications
		WA0105: Conduct post-service inspection and functionality tests and identify and report any problems
		WA0106: Restore the work area and dispose of waste materials
		WA0107: Interact with workshop personnel and customers, where applicable
		WA0108: Complete service reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Service reports
		SE0103: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-02, Removal and replacement of engine sub-systems (including batteries), NQF Level 3, Credits 12		
	WE01-Observe and assist a competent artisan to remove and replace engine sub-systems (including batteries) for a minimum of 20 hours	
	WE02-Remove and replace engine sub-systems (including batteries), under the direct guidance and supervision of a competent artisan, for a minimum of 40 hours	
	WE03-Independently remove and replace engine sub-systems (including batteries), under limited supervision and signed	
		WA0101: Gather the necessary technical information, plan the operation, and collect relevant tools and equipment
		WA0102: Conduct risk assessments and perform vehicle lock- out processes where applicable
		WA0103: Conduct pre-removal inspections and identify and report any problems
		WA0104: Disconnect and remove engine subsystems (including batteries) using lifting equipment where required
		WA0105: Conduct relevant tests and compile condition reports
		WA0106: Prepare engine subsystems (including batteries) for replacement and lift, position and replace engine subsystems (including batteries)
		WA0107: Connect engine subsystems (including batteries), conduct functionality tests, and adjust as required to meet specifications
		WA0108: Restore the work area and dispose of waste materials
		WA0109: Interact with workshop personnel and customers, if applicable
		WA0110: Complete installation reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Condition and installation reports
		SE0103: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures, and standards
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-03, Removal and replacement of vehicle sub-systems, NQF Level 3, Credits 16		
	WE01-Observe and assist a competent artisan to remove and replace vehicle sub-systems for a minimum of 20 hours	
	WE02-Remove and replace vehicle sub-systems, under the direct guidance and supervision of a competent artisan for a minimum of 80 hours	
	WE03-Independently remove and replace vehicle sub-systems, under limited supervision and signed off by a competent artisan, for a minimum of 60 hours	
		WA0101: Gather the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and perform vehicle lock- out processes where applicable
		WA0103: Conduct pre-removal inspections and identify and report any problems
		WA0104: Disconnect and remove vehicle sub-systems using lifting equipment where required
		WA0105: Conduct relevant tests and compile condition reports
		WA0106: Prepare vehicle sub-systems for replacement and lift, position and replace vehicle sub-systems
		WA0107: Connect vehicle sub-systems, conduct functionality tests, and adjust as required to meet specifications
		WA0108: Restore the work area and dispose of waste materials
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Complete installation reports

		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Condition and installation reports
		SE0103: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-04, Engine removal and installation processes, NQF Level 3, Credits 20		
	WE01-Observe and assist a competent artisan to remove and install engines for a minimum of 20 hours	
	WE02-Remove and install engines, under the direct guidance and supervision of a competent artisan for a minimum of 100 hours	
	WE03-Independently remove and install engines, under limited supervision and signed off by a competent artisan, for a minimum of 80 hours	
		WA0101: Gather the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and perform vehicle lock- out processes where applicable
		WA0103: Conduct pre-removal inspections and identify and report any problems
		WA0104: Disconnect and remove engines using lifting equipment where required
		WA0105: Conduct relevant tests and compile condition reports
		WA0106: Prepare engines for installation and lift, position and replace engines
		WA0107: Connect engines, conduct functionality tests, and adjust as required to meet specifications
		WA0108: Restore the work area and dispose of waste materials
		WA0109: Interact with workshop personnel and customers, if applicable
		WA0110: Complete installation reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Condition and installation reports
		SE0103: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-05, Repair processes (gearboxes, differentials and engines), NQF Level 3, Credits 28		
	WE01-Observe and assist a competent artisan to repair gearboxes, differentials and engines for a minimum of 20 hours	
	WE02-Repair gearboxes, differentials and engines, under the direct guidance and supervision of a competent artisan for a minimum of 160 hours	
	WE03-Independently repair gearboxes, differentials and engines, under limited supervision and signed off by a competent artisan, for a minimum of 100 hours	
		WA0101: Gather the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments
		WA0103: Inspect the gearboxes, differentials and engines and identify and record any issues or problems
		WA0104: Dismantle the gearbox, differential and engine components in accordance with the manufacturer's guidelines
		WA0105: Inspect components and compile condition reports
		WA0106: Replace parts as required and reassemble gearboxes, differentials and engines
		WA0107: Conduct post-assembly inspection and functionality tests, identify and report any problems
		WA0108: Restore the work area and dispose of waste materials
		WA0109: Interact with workshop personnel and customers, if applicable
		WA0110: Complete maintenance reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0103: Time sheet reflecting time spent on activities
653101000-WM-06, Diagnosis and repair of electrical systems (charging, starting, lighting and auxiliary), NQF Level 4, Credits 36		
	WE01-Observe and assist a competent artisan to diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles for a minimum of 40 hours	
	WE02-Diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles, under the direct guidance and supervision of a competent artisan, for a minimum of 220 hours	
	WE03-Independently diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 100	
		WA0101: Gather the job instruction and the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and select and use relevant personal protective equipment
		WA0103: Conduct visual inspections and identify any problem areas or issues
		WA0104: Perform relevant tests and record readings
		WA0105: Access vehicle electronic control modules and download operational and parameter information
		WA0106: Compare diagnostic codes and test readings with the manufacturer's specifications and identify the root cause

		WA0107: Rectify the problem and restore system functionality to meet manufacturer's specifications
		WA0108: Conduct post-repair inspection and functionality tests and identify and report any problems
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Interact with workshop personnel and customers, if applicable
		WA0111: Complete repair reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0103: Repair reports
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-07, Diagnosis and repair of engines and engine sub-systems, NQF Level 4, Credits 36		
	WE01-Observe and assist a competent artisan to diagnose and repair petrol and diesel engines and engine sub-systems for at least three different models of light motor vehicles, for a minimum of 40 hours	
	WE02-Diagnose and repair at least three different models of petrol and diesel engines and engine sub-systems, under the direct guidance and supervision of a competent artisan, for a minimum of 220 hours	
	WE03-Independently diagnose and repair at least three different models of petrol and diesel engines and engine sub-systems successfully, under limited supervision and signed off by a competent artisan, for a minimum of 100 hours	
		WA0101: Gather the job instruction and the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and select and use relevant personal protective equipment
		WA0103: Conduct visual inspections and identify any problem areas or issues
		WA0104: Perform relevant tests and record readings
		WA0105: Access engine electronic control modules and download operational and parameter information
		WA0106: Compare diagnostic codes and test readings with the manufacturer's specifications and identify the root cause
		WA0107: Rectify the problem and restore system functionality to meet manufacturer's specifications
		WA0108: Conduct post-repair inspection and functionality tests and identify and report any problems
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Interact with workshop personnel and customers, if applicable
		WA0111: Complete repair reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0103: Repair reports
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-08, Diagnosis and repair of brake systems, NQF Level 4, Credits 40		
	WE01-Observe and assist a competent artisan to diagnose and repair brake systems in at least three different models of light motor vehicles, for a minimum of 20 hours	
	WE02-Diagnose and repair brake systems in at least three different models of light motor vehicles, under the direct guidance and supervision of a competent artisan, for a minimum of 260 hours	
	WE03-Independently diagnose and repair brake systems in at least three different models of light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 120 hours	
		WA0101: Gather the job instruction and the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and select and use relevant personal protective equipment
		WA0103: Conduct visual inspections and identify any problem areas or issues
		WA0104: Perform relevant tests and record readings
		WA0105: Access vehicle electronic control modules and download operational and parameter information
		WA0106: Compare diagnostic codes and test readings with the manufacturer's specifications and identify the root cause
		WA0107: Rectify the problem and restore system functionality to meet manufacturer's specifications
		WA0108: Conduct post-repair inspection and functionality tests and identify and report any problems
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Interact with workshop personnel and customers, if applicable
		WA0111: Complete repair reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0103: Repair reports
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-09, Diagnosis and repair of drive train systems, NQF Level 4, Credits 28		

	WE01-Observe and assist a competent artisan to diagnose and repair at least three different models of light motor vehicle drive train systems for a minimum of 40	
	WE02-Diagnose and repair at least three different models of light motor vehicle drive train systems, under the direct guidance and supervision of a competent artisan, for a minimum of 160 hours	
	WE03-Independently diagnose and repair at least three different models of light motor vehicle drive train systems successfully, under limited supervision and signed off by a competent artisan, for a minimum of 80 hours	
		WA0101: Gather the job instruction and the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and select and use relevant personal protective equipment
		WA0103: Conduct visual inspections and identify any problem areas or issues
		WA0104: Conduct visual inspections and identify any problem areas or issues
		WA0105: Access vehicle electronic control modules and download operational and parameter information
		WA0106: Compare diagnostic codes and test readings with the manufacturer's specifications and identify the root cause
		WA0107: Rectify the problem and restore system functionality to meet manufacturer's specifications
		WA0108: Conduct post-repair inspection and functionality tests and identify and report any problems
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Interact with workshop personnel and customers, if applicable
		WA0111: Complete repair reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: Checklist completed by the mechanic verifying task completion in accordance with all applicable organisational, safety, quality, environmental and administrative procedures and standards
		SE0103: Repair reports
		SE0104: Time sheet reflecting time spent on activities
653101000-WM-10, Diagnosis and repair of steering and suspension systems, NQF Level 4, Credits 36		
	WE01-Observe and assist a competent artisan to diagnose and repair at least three different models of light motor vehicle steering and suspension systems, for a minimum of 40 hours	
	WE02-Diagnose and repair at least three different models of light motor vehicle steering and suspension systems, under the direct guidance and supervision of a competent artisan, for a minimum of 200 hours	
	WE03-Independently diagnose and repair at least three different models of light motor vehicle steering and suspension systems, under limited supervision and signed off by a competent artisan, for a minimum of 120 hours	
		WA0101: Gather the job instruction and the necessary technical information, plan the operation and collect relevant tools and equipment
		WA0102: Conduct risk assessments and select and use relevant personal protective equipment
		WA0103: Conduct visual inspections and identify any problem areas or issues
		WA0104: Perform relevant tests and record readings
		WA0105: Access vehicle electronic control modules and download operational and parameter information
		WA0106: Compare diagnostic codes and test readings with the manufacturer's specifications and identify the root cause
		WA0107: Rectify the problem and restore system functionality to meet manufacturer's specifications
		WA0108: Conduct post-repair inspection and functionality tests and identify and report any problems
		WA0109: Restore the work area and dispose of waste materials
		WA0110: Interact with workshop personnel and customers, if applicable
		WA0111: Complete repair reports
		SE0101: A learning journal reflecting the job card number and the key points noted by the learner, signed off by the mechanic
		SE0102: All relevant tools, test and lifting equipment, spare parts and consumables required to carry out the diagnosing and repair activities
		SE0103: Repair reports
		SE0104: Time sheet reflecting time spent on activities

SPARROW FET Enterprises PTY LtD

COMPETENCY REPORT

STUDENT DETAILS				
Student Name and Surname				
Student ID Number				
Cell Phone Number				
Student Email Address				
QUALIFICATION DETAILS				
Qualification Name	**OC: Automotive Motor Mechanic NQF L4**			
Experiential Results	**COMPETENT**		**NOT YET COMPETENT**	
Final Verdict	**COMPETENT**		**NOT YET COMPETENT**	
Comment on overall Performance				
Suggestions for improvement (If any)				

653101000-WM-01	Routine scheduled services	Level 2	18 Credits.
653101000-WM-02	Removal and replacement of engine sub-systems (including batteries)	Level 3	12 Credits.
653101000-WM-03	Removal and replacement of vehicle sub-systems	Level 3	16 Credits.
653101000-WM-04	Engine removal and installation processes	Level 3	20 Credits.
653101000-WM-05	Repair processes (gearboxes differentials and engines)	Level 3	28 Credits.
653101000-WM-06	Diagnosis and repair of electrical systems (charging starting lighting and auxiliary)	Level 4	36 Credits.
653101000-WM-07	Diagnosis and repair of engines and engine sub-systems	Level 4	36 Credits.
653101000-WM-08	Diagnosis and repair of brake systems	Level 4	40 Credits.
653101000-WM-09	Diagnosis and repair of drive train systems	Level 4	28 Credits.
653101000-WM-10	Diagnosis and repair of steering and suspension systems	Level 4	36 Credits
Apprentice Signature		**Date:**	
Assessor Signature		**Date:**	

SPARROW
FET Enterprises PTY LtD

ASSESSMENT PLAN

Assessment/s details		
1	**Qualification**	Occupational Certificate: Automotive Motor Mechanic NQF L4
2	**Workplace Modules**	Work Experience Modules, Totalling 270 Credits: • 653101000-WM-01, Routine scheduled services, at NQF Level 2, 18 Credits. • 653101000-WM-02, Removal and replacement of engine sub-systems (including batteries), at NQF Level 3, 12 Credits. • 653101000-WM-03, Removal and replacement of vehicle sub-systems, at NQF Level 3, 16 Credits. • 653101000-WM-04, Engine removal and installation processes, at NQF Level 3, 20 Credits. • 653101000-WM-05, Repair processes (gearboxes, differentials and engines), at NQF Level 3, 28 Credits. • 653101000-WM-06, Diagnosis and repair of electrical systems (charging, starting, lighting and auxiliary), at NQF Level 4, 36 Credits. • 653101000-WM-07, Diagnosis and repair of engines and engine sub-systems, at NQF Level 4, 36 Credits. • 653101000-WM-08, Diagnosis and repair of brake systems, at NQF Level 4, 40 Credits. • 653101000-WM-09, Diagnosis and repair of drive train systems, at NQF Level 4, 28 Credits. • 653101000-WM-10, Diagnosis and repair of steering and suspension systems, at NQF Level 4, 36 Credits 36
4	**Type of Assessment**	Experiential Assessment
6	**Start Date**	
7	**End Date**	

Assessment techniques/ methods/ evidence (assessor to tick those applicable)					
X	Observation/demonstration	X	Oral questioning		Written questions
X	Work-based project		Assignment	X	Witness testimony
X	Work-based project		Simulation	X	During training
X	Portfolio of evidence		Prior learning evidence		Others assessors evidence

To the Student confirm that:		
1	I have received the Assessment plan. I understand and agree with all details related to the Assessment plan (date, time and type of Assessment)	
2	I understand the Assessment process and what my role is in the Assessment process.	
3	The purpose of the Assessment has been clearly explained to me (formative or summative).	
4	I have read through the Assessment task instructions; I know the requirements of the assessment for which I am being assessed.	
5	The Assessment tasks have been discussed with me, and I know I will be assessed against the criteria that these tasks meet.	
6	I know when (date and time), where (online/on-campus) and how (the type of Assessment method) I will be assessed, and I was given fair notice.	
7	I understand the evidence needed to be deemed competent. Further opportunities to be re-assessed will be available	
8	I have received relevant instructions related to Assessment activities	
9	I have read and understood the plagiarism policy and process	
10	I understand that I can be RPLed.	
11	I have been introduced to the role players and their responsibility in the Assessment process.	
12	I have been introduced to the appeals procedure	
13	I understand Assessment results are only final after the completion of the moderation/verification process	
14	I am aware that a study schedule with deadlines for my Assessments is available on my course page.	
15	I can access my learning resources on the course page, OR I have received my learning resources in hard copy.	

Do you have any special needs _____

Details on special needs _____

Do you have any concerns regarding the assessment?

_____

I _____

ID Number _____ agree to the below on this

date_____

•I am satisfied with the pre -Assessment meeting.
•I have been given the opportunity to contribute to the Assessment plan.
•I have received the documents listed.
•I am aware of the details regarding the submission of the Assessment.

_____
Student Signature

_____ _____
Signature Facilitator **Signature Assessor**

SPARROW
FET Enterprises PTY LtD

SUMMATIVE ASSESSMENT

Assessment Details			
Qualification	Occupational Certificate: Automotive Motor Mechanic		
NQF Level	NQF L4		
Modules Covered	Work Experience Modules, Totalling 270 Credits: ● 653101000-WM-01, Routine scheduled services, at NQF Level 2, 18 Credits. ● 653101000-WM-02, Removal and replacement of engine sub-systems (including batteries), at NQF Level 3, 12 Credits. ● 653101000-WM-03, Removal and replacement of vehicle sub-systems, at NQF Level 3, 16 Credits. ● 653101000-WM-04, Engine removal and installation processes, at NQF Level 3, 20 Credits. ● 653101000-WM-05, Repair processes (gearboxes, differentials and engines), at NQF Level 3, 28 Credits. ● 653101000-WM-06, Diagnosis and repair of electrical systems (charging, starting, lighting and auxiliary), at NQF Level 4, 36 Credits. ● 653101000-WM-07, Diagnosis and repair of engines and engine sub-systems, at NQF Level 4, 36 Credits. ● 653101000-WM-08, Diagnosis and repair of brake systems, at NQF Level 4, 40 Credits. ● 653101000-WM-09, Diagnosis and repair of drive train systems, at NQF Level 4, 28 Credits. ● 653101000-WM-10, Diagnosis and repair of steering and suspension systems, at NQF Level 4, 36 Credits 36		
Assessor / Facilitator			
Document Reference Number			
Assessment Type	Experiential Assessment		
Total Marks of Assessment	N/A	**Attempt Number**	
Time Allocation		**Submission Date**	

Student Details	
Name and Surname	
Email Address	
ID Number	

Student Results	
Mark Achieved	N/A
Percentage	N/A
Competent / Not Yet Competent	
Detailed Feedback	

Plagiarism declaration (Must be Read and Agreed)I hereby declare the following:

I, _____, hereby declare that the assessment submitted by me is entirely my original work, and all sources used have been appropriately acknowledged and cited. I understand the seriousness of plagiarism and its implications on academic integrity.
Throughout the completion of this assessment, I have not engaged in any form of plagiarism, including but not limited to copying and pasting from published or unpublished materials, using someone else's ideas, work, or data without proper attribution, or submitting work previously submitted for another academic purpose.
In the event that I have utilized external sources, including books, articles, websites, or any other materials, I have diligently and accurately referenced them using the appropriate citation style specified by my educational institution.
I acknowledge that any act of plagiarism is a violation of academic ethics and can result in severe consequences, including but not limited to receiving a failing grade for this assessment or the entire course.

I take full responsibility for the authenticity of this work and assure that it reflects my own thoughts, analysis, and conclusions based on the knowledge acquired during the course of my studies.

By submitting this assessment, I confirm my understanding of the importance of academic integrity and pledge to uphold it in all my future academic endeavors.

Signature Student:		**Date:**
Assessor Signature:		**Date:**

****Please note that this document is automatically created from the Assessment Google Form Assessment****

All qualifications and part qualifications registered on the National Qualifications Framework are public property. Thus the only payment that can be made for them is for service and reproduction. It is illegal to sell this material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged as the source.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

REGISTERED QUALIFICATION THAT HAS PASSED THE END DATE:

Occupational Certificate: Automotive Motor Mechanic

SAQA QUAL ID	QUALIFICATION TITLE			
97990	Occupational Certificate: Automotive Motor Mechanic			
ORIGINATOR				
Development Quality Partner - MERSETA				
PRIMARY OR DELEGATED QUALITY ASSURANCE FUNCTIONARY			**NQF SUB-FRAMEWORK**	
-			OQSF - Occupational Qualifications Sub-framework	
QUALIFICATION TYPE	**FIELD**		**SUBFIELD**	
Occupational Certificate	Field 06 - Manufacturing, Engineering and Technology		Manufacturing and Assembly	
ABET BAND	**MINIMUM CREDITS**	**PRE-2009 NQF LEVEL**	**NQF LEVEL**	**QUAL CLASS**
Undefined	540	Not Applicable	NQF Level 04	Regular-ELOAC
REGISTRATION STATUS		**SAQA DECISION NUMBER**	**REGISTRATION START DATE**	**REGISTRATION END DATE**
Passed the End Date - Status was "Reregistered"		SAQA 06120/18	2018-07-01	2023-06-30
LAST DATE FOR ENROLMENT		**LAST DATE FOR ACHIEVEMENT**		
2024-06-30		2027-06-30		

In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 levels unless specifically stated otherwise.

This qualification does not replace any other qualification and is not replaced by any other qualification.

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:
The purpose of this qualification is to equip learner with skills and knowledge to operate as an Automotive Motor Mechanic. A qualified learner will be able to:

- Perform preventative and scheduled maintenance on petrol and diesel road vehicles.
- Dismantle, inspect, assess, repair and assemble petrol and diesel road vehicle engine and vehicle system components.
- Diagnose and repair faults in petrol and diesel engines and vehicle systems and their components.

Rationale:
The Occupational Certificate in Automotive Motor Mechanic qualification is designed to provide learners with skills needed in the automotive industry, such as the maintenance and repair of vehicles to enable customers to use their vehicles productively, cost-effectively and safely, and to obtain the maximum benefit from their investment as well as complying with legal obligations relating to the condition and use of their vehicles. Learners may also be involved in activities such as routine scheduled services, the repair or replacement of components and parts, and the diagnosing and repair of system faults in a variety of types and models of automotive vehicles, including the assembling, testing and commissioning of new or reconditioned parts for automotive vehicles. The automotive maintenance and repair industry provides essential services to users of automotive motor vehicles. The main users in South Africa are the general public, public entities and commercial organisations owning vehicle fleets used for a variety of purposes.

The construction of automotive vehicles has become very complex and the engineering has become a sophisticated integration of mechanical, electric, electronic, networking and electronic management systems (computers). In response, the work of the mechanic has shifted from primarily performing mechanical and electrical repairs to

diagnosing faults using electronic management systems, and pinpointing and then replacing defective components. Owing to warranty and safety considerations, Original Equipment Manufacturers set stringent standards for the servicing, maintenance and repair of the vehicles. This qualification is designed to equip qualifying learners to meet these standards.

The primary employers of Automotive Motor Mechanics are the retail motor sector and organisational service departments, including those of government departments and essential public services such as emergency vehicles and ambulances. Qualified mechanics may also become self-employed and open their own maintenance or repair facilities.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL):
RPL for access to the external integrated summative assessment: Accredited providers and approved workplaces must apply the internal assessment criteria specified in the related Curriculum document to establish and confirm prior learning. Accredited providers and workplaces must confirm prior learning by issuing a Statement of Results or certifying a Work Experience Record.

RPL for access to the qualification: Accredited providers and approved workplaces may recognise prior learning against the relevant entry requirements.

Entry Requirements:
The minimum entry requirements for the Occupational Certificate in Automotive Motor Mechanic qualification is NQF Level 1 qualification with a pass in Mathematics.

RECOGNISE PREVIOUS LEARNING?

Y

QUALIFICATION RULES

This qualification consists of knowledge skills, practical skills and work experience at NQF 2, 3, and 4 totalling 540 Credits.
Knowledge Modules, Totalling 108 Credits:
- 653101000-KM-01, Workplace fundamentals, at NQF Level 2, 9 Credits.
- 653101000-KM-02, Foundational concepts for mechanics, at NQF Level 2, 14 Credits.
- 653101000-KM-03, Vehicle and equipment fundamentals, at NQF Level 2, 8 Credits.
- 653101000-KM-04, Basic engine systems, at NQF Level 2, 8 Credits.
- 653101000-KM-05, Vehicle, equipment and propulsion systems, at NQF Level 3, 13 Credits.
- 653101000-KM-06, Electrical systems and basic electronic, hydraulic and pneumatic principles, at NQF Level 3, 16 Credits.
- 653101000-KM-07, Advanced vehicle and equipment systems, at NQF Level 4, 30 Credits.
- 653101000-KM-08, Problem solving and engine optimisation, at NQF Level 4, 10 Credits.

Practical Skill Modules, Totalling 162 Credits:
- 653101000-PM-01, Work safely and respond to emergencies, at NQF Level 2, 6 Credits.
- 653101000-PM-02, Use tools and equipment, at NQF Level 2, 26 Credits.
- 653101000-PM-03, Cut and join metals, at NQF Level 2, 5 Credits.
- 653101000-PM-04, Remove and install mechanical components (gaskets, seals, bearings and locking devices), at NQF Level 2, 6 Credits.
- 653101000-PM-05, Work with auto-electric and auto-electronic components, at NQF Level 2, 2 Credits.
- 653101000-PM-06, Work with fluid power components, at NQF Level 2, 2 Credits.
- 653101000-PM-07, Maintain and service vehicles and vehicle components, at NQF Level 2, 6 Credits.
- 653101000-PM-08, Dismantle, assess and reassemble engines and engine sub-assemblies, at NQF Level 3, 15 Credits.
- 653101000-PM-09, Dismantle, assess and reassemble vehicle sub-assemblies, at NQF Level 3, 8 Credits.
- 653101000-PM-10, Remove, test, repair and refit engines and vehicle components, at NQF Level 3, 7 Credits.
- 653101000-PM-11, Diagnose and repair vehicle systems, at NQF Level 4, 46 Credits.
- 653101000-PM-12, Diagnose and repair electrical systems, at NQF Level 4, 14 Credits.
- 653101000-PM-13, Diagnose and repair electronically controlled vehicle systems, at NQF Level 4, 19 Credits.

Work Experience Modules, Totalling 270 Credits:
- 653101000-WM-01, Routine scheduled services, at NQF Level 2, 18 Credits.
- 653101000-WM-02, Removal and replacement of engine sub-systems (including batteries), at NQF Level 3, 12 Credits.
- 653101000-WM-03, Removal and replacement of vehicle sub-systems, at NQF Level 3, 16 Credits.
- 653101000-WM-04, Engine removal and installation processes, at NQF Level 3, 20 Credits.
- 653101000-WM-05, Repair processes (gearboxes, differentials and engines), at NQF Level 3, 28 Credits.
- 653101000-WM-06, Diagnosis and repair of electrical systems (charging, starting, lighting and auxiliary), at NQF Level 4, 36 Credits.
- 653101000-WM-07, Diagnosis and repair of engines and engine sub-systems, at NQF Level 4, 36 Credits.
- 653101000-WM-08, Diagnosis and repair of brake systems, at NQF Level 4, 40 Credits.
- 653101000-WM-09, Diagnosis and repair of drive train systems, at NQF Level 4, 28 Credits.
- 653101000-WM-10, Diagnosis and repair of steering and suspension systems, at NQF Level 4, 36 Credits 36.

EXIT LEVEL OUTCOMES

1. Perform preventative and scheduled maintenance on petrol and diesel road vehicles.
2. Dismantle, inspect, assess, repair and assemble engine and vehicle system components.
3. Diagnose and repair faults in petrol and diesel engines and vehicle systems and their components.

ASSOCIATED ASSESSMENT CRITERIA

Associated Assessment Criteria for Exit Level Outcome 1:
- Understanding of general principles and critical issues relating to performing scheduled maintenance on light motor vehicles according to accepted industry standards is demonstrated.
- The service is performed according to the manufacturer's schedule, specifications and timeframes.
- Technical information is sourced and correctly interpreted.
- The maintenance report accurately reflecting the condition of all the required components and systems, including defective components is produced.
- Components are removed, replaced and tested as per the service schedule.
- The work is systematically planned and the work area is prepared according to task requirements.
- All activities are performed with confidence and workmanship meeting industry standards is ensured.
- All activities are performed according to safety and environmental requirements.

Associated Assessment Criteria for Exit Level Outcome 2:
- Understanding of the general principles and critical issues relating to removing, disassembling, assessing and replacing engine and vehicle system components according to accepted industry standards is demonstrated.
- Systems and subsystems in the motor vehicle are removed, disassembled, assessed and replaced according to applicable standard processes and to the manufacturer's specifications.
- The work is systematically planned and the work area is prepared according to task requirements.
- All waste materials are disposed of and the work area is restored according to health, safety and environmental requirements.

Associated Assessment Criteria for Exit Level Outcome 3:
- Understanding of the operating principles of light motor vehicle systems and components is demonstrated.
- Understanding of general principles and critical issues relating to diagnosing and repairing faults in light motor vehicles according to accepted industry standards is demonstrated.
- All faults are diagnosed correctly and within stipulated timeframes.
- Diagnostic equipment is operated according to the manufacturer's procedures and standards.
- Diagnostic codes and events are correctly interpreted.
- Technical information is sourced and correctly interpreted.
- Faults are repaired according to the manufacturer's procedures and specifications.
- The work is systematically planned and the work area is prepared according to task requirements.

Integrated Assessment:
Integrated Formative Assessment:
The skills development provider will use the curriculum to guide them on the stipulated internal assessment criteria and weighting. They will also apply the scope of practical skills and applied knowledge as stipulated by the internal assessment criteria. This formative assessment leads to entrance into the integrated external summative assessment.

Integrated Summative Assessment:
An external integrated summative assessment, conducted through the relevant QCTO Assessment Quality partner, is required for the issuing of this qualification. The external integrated summative assessment will focus on the exit level outcomes and associated assessment criteria. The external assessment will be conducted through a trade test conducted in terms of Section 26D of the Skills Development Act and the Trade Test regulations. The assessment will consist of written and practical tasks covering critical aspects of the trade in a simulated environment at an assessment centre accredited by QCTO and conducted by an Assessor registered by National Artisan Moderation Body (NAMB). The assessment will take place over a minimum of 3 days.

INTERNATIONAL COMPARABILITY

Centennial College:
The Centennial College in Ontario, Canada offers an Automotive Mechanic Certificate in mechanic and repair. This qualification equips learners with technical and theoretical information, and then allows them to apply their knowledge in simulated automotive workshops. This qualification is offered as either one-year Certificate or two-year Diploma, and is designed to either count toward an apprenticeship or to help learners prepare to enter an automotive mechanic apprenticeship.

Universal Technical Institute:
The Universal Technical Institute in the United States of America offers an Automotive Technician Training. This training focuses on diagnosing, maintaining and repairing domestic and foreign automobiles. Learners also find out how to troubleshoot problems of all kinds, using the latest engine analysers, handheld scanners and other computerised diagnostic equipment.

They will learn everything from basic engine systems to computerised fuel injection, anti-lock brakes, passenger restraint systems, computerised engine controls and much more.

Cork Institute of Technology:
The Cork Institute of Technology in Ireland offers a Certificate in Mechanical Automotive Technology and Automotive

Technology Electrical. This qualification covers fundamentals of automotive technology and automotive electricity. The areas covered include engines, transmissions, brakes, suspension, steering and automobile electrical components, circuits and systems.

Conclusion:
This qualification compares favourably with Automotive Mechanic qualifications offered in Canada, United States of America and Ireland. All qualifications focus on providing learners with knowledge of the important aspect of vehicles such as fuel, servicing and repairs. Learners are expected to undergo hands-on practice in order to complete the qualification.

ARTICULATION OPTIONS

This qualification presents potential articulation horizontally and vertically into related qualifications.

Horizontal Articulation:
- Further Education and Training Certificate in Automotive Components in Manufacturing and Assembly, Level 4 (ID 71949).
- Further Education and Training Certificate in Automotive Repair and Maintenance, NQF Level 4 (ID 58539).

Vertical Articulation:
- National Certificate N4: Engineering studies, NQF Level 5 (ID 66881).

MODERATION OPTIONS

N/A

CRITERIA FOR THE REGISTRATION OF ASSESSORS

N/A

NOTES

N/A

LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION:

NONE

PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS QUALIFICATION:

This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Primary or Delegated Quality Assurance Functionaries have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Primary or Delegated Quality Assurance Functionary should be notified if a record appears to be missing from here.

NONE

All qualifications and part qualifications registered on the National Qualifications Framework are public property. Thus the only payment that can be made for them is for service and reproduction. It is illegal to sell this material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged as the source.

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-01-WE01-Observe and assist a competent artisan to service at least three different models of light motor vehicles, for a minimum of 20 hours • WM-01-WE02-Service at least three different models of light motor vehicles, under the direct guidance and supervision of • WM-01-WE03-Independently service at least three different models of light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 60 hours
Module Name	Routine scheduled services, NQF Level 2, Credits 18
Assessor / Facilitator	
Document Reference Number	653101000-WM-01
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-02-WE01-Observe and assist a competent artisan to remove and replace engine sub-systems (including batteries) for a minimum of 20 hours • WM-02-WE02-Remove and replace engine sub-systems (including batteries), under the direct guidance and supervision of a competent artisan, for a minimum of 40 hours • WM-02-WE03-Independently remove and replace engine sub- systems (including batteries), under limited supervision and signed off by a competent artisan,for a minimum of 60 hours
Module Name	Removal and replacement of engine sub-systems (including batteries), NQF Level 3, Credits 12
Assessor / Facilitator	
Document Reference Number	653101000-WM-02
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-03-WE01-Observe and assist a competent artisan to remove and replace vehicle sub-systems for a minimum of 20 hours • WM-03-WE02-Remove and replace vehicle sub-systems, under the direct guidance and supervision of a competent artisan for a minimum of 80 hours • WM-03-WE03-Independently remove and replace vehicle sub- systems, under limited supervision and signed off by a competent artisan, for a minimum of 60 hours
Module Name	Removal and replacement of vehicle sub-systems, NQF Level 3, Credits 16
Assessor / Facilitator	
Document Reference Number	653101000-WM-03
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-04-WE01-Observe and assist a competent artisan to remove and install engines for a minimum of 20 hours • WM-04-WE02-Remove and install engines, under the direct • guidance and supervision of a competent artisan for a minimum of 100 hours • WM-04-WE03-Independently remove and install engines, under limited supervision and signed off by a competent artisan, for a minimum of 80 hours
Module Name	Engine removal and installation processes, NQF Level 3, Credits 20
Assessor / Facilitator	
Document Reference Number	653101000-WM-04
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-05-WE01-Observe and assist a competent artisan to repair gearboxes, differentials and engines for a minimum of 20 hours • WM-05-WE02-Repair gearboxes, differentials and engines, under the direct guidance and supervision of a competent artisan for a minimum of 160 hours • WM-05-WE03-Independently repair gearboxes, differentials and engines, under limited supervision and signed off by a competent artisan, for a minimum of 100 hours
Module Name	Repair processes (gearboxes, differentials and engines), NQF Level 3, Credits 28
Assessor / Facilitator	
Document Reference Number	653101000-WM-05
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-06-WE01-Observe and assist a competent artisan to diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles for a minimum of 40 hours • WM-06-WE02-Diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles, under the direct guidance and supervision of a competent artisan, for a minimum of 220 hours • WM-06-WE03-Independently diagnose and repair electrical systems (charging, starting, lighting and auxiliary) in light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 100
Module Name	Diagnosis and repair of electrical systems (charging, starting, lighting and auxiliary), NQF Level 4, Credits 36
Assessor / Facilitator	
Document Reference Number	653101000-WM-06
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-07-WE01-Observe and assist a competent artisan to diagnose and repair petrol and diesel engines and engine sub- systems for at least three different models of light motor vehicles, for a minimum of 40 hours • WM-07-WE02-Diagnose and repair at least three different models of petrol and diesel engines and engine sub-systems, under the direct guidance and supervision of a competent artisan, for a minimum of 220 hours • WM-07-WE03-Independently diagnose and repair at least three different models of petrol and diesel engines and engine sub-systems successfully, under limited supervision and signed off by a competent artisan, for a minimum of 100 hours
Module Name	Diagnosis and repair of engines and engine sub-systems, NQF Level 4, Credits 36
Assessor / Facilitator	
Document Reference Number	653101000-WM-07
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:

Apprentice Feedback		**Signature:**

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-08-WE01-Observe and assist a competent artisan to diagnose and repair brake systems in at least three different models of light motor vehicles, for a minimum of 20 hours • WM-08-WE02-Diagnose and repair brake systems in at least three different models of light motor vehicles, under the direct guidance and supervision of a competent artisan, for a minimum of 260 hours • WM-08-WE03-Independently diagnose and repair brake systems in at least three different models of light motor vehicles, under limited supervision and signed off by a competent artisan, for a minimum of 120 hours
Module Name	Diagnosis and repair of brake systems, NQF Level 4, Credits 40
Assessor / Facilitator	
Document Reference Number	653101000-WM-08
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-09-WE01-Observe and assist a competent artisan to diagnose and repair at least three different models of light motor vehicle drive train systems for a minimum of 40 • WM-09-WE02-Diagnose and repair at least three different models of light motor vehicle drive train systems, under the direct guidance and supervision of a competent artisan, for a minimum of 160 hours • WM-09-WE03-Independently diagnose and repair at least three different models of light motor vehicle drive train systems successfully, under limited supervision and signed off by a competent artisan, for a minimum of 80 hours
Module Name	Diagnosis and repair of drive train systems, NQF Level 4, Credits 28
Assessor / Facilitator	
Document Reference Number	653101000-WM-09
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature:

SPARROW
FET Enterprises PTY LtD

STUDENT FEEDBACK

Assessment Details	
Qualification	Occupational Certificate: Automotive Motor Mechanic
NQF Level	NQF L4
Scope Coverage	• WM-10-WE01-Observe and assist a competent artisan to diagnose and repair at least three different models of light motor vehicle steering and suspension systems, for a minimum of 40 hours • WM-10-WE02-Diagnose and repair at least three different models of light motor vehicle steering and suspension systems, under the direct guidance and supervision of a competent artisan, for a minimum of 200 hours • WM-10-WE03-Independently diagnose and repair at least three different models of light motor vehicle steering and suspension systems, under limited supervision and signed off by a competent artisan, for a minimum of 120 hours
Module Name	Diagnosis and repair of steering and suspension systems, NQF Level 4, Credits 36
Assessor / Facilitator	
Document Reference Number	653101000-WM-10
Assessment Type	Experiential

Apprentice Details		
Name and Surname		
Email Address		
ID Number		
Date of Assessment		
Supervisor Feedback		Signature:
Apprentice Feedback		Signature: