



MAURITIUS QUALIFICATIONS AUTHORITY

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**NATIONAL CERTIFICATE**

**LEVEL 4**

**IN**

**AUTOMOTIVE MECHANICS**

**AND**

**ELECTRONICS**

# **National Certificate Level 4 in Automotive Mechanics and Electronics**

1. **Level of qualification:** 4
2. **Total Credits:** 106
3. **Review date:** October 2025
4. **Access to qualification**

## **4.1 Entry information**

National Certificate Level 3 in Automotive Mechanics

or

National Certificate Level 3 in Automotive Electricity and Electronics

or

An alternative qualification at Level 3 of the NQF

## **4.2 Recognition of Prior Learning (RPL)**

Potential candidates holding a qualification at NQF Level 3 and at least 3 years of working experience in the relevant field may access this qualification through Recognition of Prior Learning (RPL) process.

## **4.3 Award of qualification requirements**

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
<b>Intake and Fuel systems</b>			
1	Service a turbocharger	4	2
2	Service a Liquefied petroleum gas (LPG) vehicle fuel system	4	2
<b>Automotive Engine Management</b>			
3	Assemble electrical and electronic circuits	4	2
4	Demonstrate knowledge and use automotive oscilloscopes	4	2
5	Service a Petrol Engine management system	4	8

6	Service a variable valve timing system. (VVT)	4	1
7	Service a Diesel engine management system	4	4
8	Service an emission control system (petrol and diesel engine)	4	2
<b>Hybrid and multiplexing systems</b>			
9	Service a multiplexing system in automotive system	4	1
10	Service automotive hybrid system	4	1
<b>Instrument panel, power window, power mirrors and in car entertainment system</b>			
11	Service instrument panel	4	2
12	Service Power windows and Power Mirrors system	4	2
13	Service in car entertainment system	4	2
<b>Central lock and immobilizer systems</b>			
14	Service central locking system	4	3
15	Service immobilizer system	4	3
<b>Automatic transmission system</b>			
16	Service Automatic transmission system	4	8
17	Service a Continuously Variable Transmission system. (CVT)	4	2
<b>Vehicle dynamic safety systems</b>			
18	Service an Antilock Braking System (ABS).	4	6
19	Service a Traction control system. (TCS)	4	3
20	Service an Electronic Stability Program. (ESP)	4	2
21	Service Electronic Parking brake	4	2
<b>Power steering systems</b>			
22	Service hydraulic power steering system	4	3
23	Service an Electric power steering system	4	2
<b>Electronic suspension and Supplementary Restraint systems</b>			
24	Service an Electronically controlled suspension system.	4	2

25	Service a Supplementary Restraint system	4	3
<b>Automotive heating, ventilation and air conditioning</b>			
26	Service an automotive heating, ventilation and air conditioning system	4	2
<b>Associated Studies</b>			
27	Demonstrate effective communications skills	4	8
28	Demonstrate mathematical skills and knowledge	4	4
29	Demonstrate technical drafting skills	4	8
30	Demonstrate good work ethics	4	1
31	Demonstrate knowledge of and apply safety and health measures	4	1
32	Demonstrate knowledge of entrepreneurship development	4	2
33	Demonstrate knowledge of sustainable development	4	1
34	Demonstrate understanding and use of information technology	4	4
35	Demonstrate knowledge of citizenship education	4	1
36	Demonstrate knowledge and basic performance skills in two physical activities	4	4
<b>Total Credits</b>		<b>106</b>	

## 5. Purpose

This qualification is intended for people wishing to pursue a career in the field of Automotive Mechanics and Electronics, and provides learners with knowledge and skills related to repairs, maintenance and servicing of modern automotive vehicles and electrical systems.