



MAURITIUS QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE

LEVEL 3

IN

TRACTOR

AND

HEAVY VEHICLE MECHANICS

National Certificate Level 3 in Tractor and Heavy Vehicle Mechanics

1. **Level of qualification:** 3
2. **Total Credits:** 115
3. **Review date:** October 2025
4. **Access to qualification**

4.1 Entry information

National Certificate of Education (NCE)/ 9th Grade of the Nine Year Continuous Basic Education (NYCBE)

or

An alternative qualification at Level 2 of the NQF

4.2 Recognition of Prior Learning (RPL)

Potential candidates holding 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

Unit No.	Unit Standard Title	Level	Credit
Basic Workshop Skills			
1	Observe good work habits and perform safe work practices in the Heavy Vehicle and related industries	3	1
2	Select and use of appropriate tools, metals and fasteners for an automotive application	3	1
3	Carry out Measurement and fits	3	1
4	Carry out general engineering fitting tasks	3	3
Engine Systems			
5	Identify the layout and general locations of the different systems on Tractors and Heavy vehicles	3	1
6	Familiarize With Instruments and control	3	2
7	Working operation of two and four stroke engines	3	1

8	Perform a basic tuning on a CI Engine	3	2
9	Dismantle, Service and Reassemble a four-stroke Compression Ignition engine	3	25
10	Perform Soldering Operation and Measure Electrical Quantities	3	1
Electricity			
11	Maintain Batteries	3	1
12	Maintain the Charging System	3	1
13	Maintain the Starting System	3	1
14	Maintain Vehicle Lighting System	3	2
Overhaul a Manual Transmission System			
15	Service a Clutch Release Mechanism	3	2
16	Overhaul a Manual Transmissions System	3	6
17	Service the Propeller Shaft	3	2
18	Overhaul the Rear Axle	3	3
Steering & Suspension Systems			
19	Service wheel, Tyres and wheel bearings	3	1
20	Service the steering linkage	3	1
21	Service Front Wheel Steering Geometry	3	1
22	Service Manual Steering Gear boxes	3	4
23	Service Front Axle and Suspension	3	3
24	Service the Rear Suspension	3	4
Brake System			
25	Identify different types of Braking Systems	3	1
26	Service a Hydraulic Brake System	3	3
27	Service a Drum Brake	3	3
28	Service a Disc Brake assembly	3	3

Hydraulics & Undercarriage			
29	Identify a Hydraulic system	3	1
30	Identify the Undercarriage of a Tractor	3	1
Associated studies			
31	Demonstrate effective communications skills	3	8
32	Demonstrate mathematical skills and knowledge	3	4
33	Demonstrate technical drafting skills	3	8
34	Demonstrate good work ethics	3	1
35	Demonstrate knowledge of and apply safety and health measures	3	1
36	Demonstrate knowledge of entrepreneurship development	3	2
37	Demonstrate knowledge of sustainable development	3	1
38	Demonstrate understanding and use of information technology	3	4
39	Demonstrate knowledge and basic performance skills in two physical activities	3	4
Total Credits		115	

5. Purpose

This qualification is intended for people wishing to pursue a career in the tractor and heavy vehicle industry and provides learners with the skills and knowledge required for general heavy vehicle repair and service work.