



MAURITIUS QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE

LEVEL 4

IN

CONSUMER ELECTRONICS

National Certificate Level 4 in Consumer Electronics

1. Level of qualification: 4
2. Total Credits: 112
3. Review date: June 2029
4. Access to qualification

4.1 Entry information

School Certificate with passes in Mathematics and Physics

OR

National Certificate Level 3 qualifications in related trades

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

Compulsory

Unit No.	Unit Standard Title	Level	Credit
General Skills			
1.	Comply to safety regulations pertaining to working with electricity	4	2
2.	Apply basic principles of Mathematics to solve simple engineering problem	4	6
3.	Communicate effectively in English with others	4	4
4.	Demonstrate understanding of Sustainable Development	4	2
AC and DC circuits			
5.	Familiarise with electrical hand tools and electronic measuring instruments	4	3

6.	Demonstrate understanding of DC circuits	4	3
7.	Demonstrate knowledge of AC circuits	4	3
8.	Read and interpret circuit diagrams	4	2
Electronic Components			
9.	Test electronic components	4	5
10.	Assemble electronic components	4	5
11.	Fault- find DC power supplies	4	3
12.	Demonstrate understanding of basic principles of digital electronics and design combinational and sequential circuits	4	6
Electromagnetism			
13.	Demonstrate knowledge of Electromagnetism	4	4
14.	Select power cords	4	2
15.	Demonstrate knowledge of circuit protection and earthing	4	2
IT Skills			
16.	Prepare computerized reports, presentations using IT tools and computer application software	4	6
17.	Draw using CAD software engineering drawings	4	3
Circuit Assembly			
18.	Identify different types of sensors and transducers used in electronic appliances	4	3
19.	Assemble, test and troubleshoot electronic circuits consisting of passive and active components	4	6
Appliance Troubleshooting			
20.	Troubleshoot and repair different consumer electronic products	4	12
21.	Troubleshoot and repair refrigerated and cooling appliances	4	5
22.	Repair mobile phones	4	2
23.	Install, commission and maintain an Uninterruptible Power Supply System (UPS)	4	3
24.	Commission consumer electronic products	4	2

Audio and Power Electronics			
25.	Demonstrate knowledge of electronic product life cycle	4	2
26.	Repair sound and audio devices	4	3
27.	Demonstrate understanding of electrical motors and speed controllers	4	3
Work-Based Training			
28.	Acquire skills and experience through on job training in the industry	4	10
		Total Credits	112

5. Purpose:

This qualification aims to prepare learners who intend to enter the field of electronics and work at technician level. Prospective learners will be imparted with knowledge skills, competencies to troubleshoot, repair and maintain Consumer Electronics equipment.

6. Qualification pathways:

Learners holding a qualification at Level 3 of the NQF are eligible for this qualification. Once awarded this qualification, learners can pursue further studies at Level 5 of the NQF in the field.