



MAURITIUS QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE

LEVEL 4

IN

COMMUNICATION ELECTRONICS

National Certificate Level 4 in Communication Electronics

1. Level: 4
2. Credits: 127
3. Review date: June 2030
4. Access to qualification

4.1 Entry information

National Certificate Level 3 in Electrical Installation Work
or

An alternative acceptable 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' experience in the 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
Electromagnetism			
01	Demonstrate knowledge of magnetism and electricity	4	3
02	Demonstrate knowledge of capacitors and semiconductor diodes	4	3
03	Demonstrate knowledge of Direct Current (DC) power supplies	4	3
04	Demonstrate knowledge of Alternating Current (AC) theory	4	3
05	Demonstrate and apply introductory knowledge of AC principles	4	3
06	Use electronic test equipment	4	3
07	Demonstrate knowledge of single-phase transformers	4	3
Earthing System			
08	Demonstrate knowledge of earthing	4	2
09	Install earthing systems for multiple earthed neutral installations	4	3
Electrical diagrams			
10	Demonstrate knowledge of safe working practices in the Industry	4	2

11	Draw and explain simple electrical diagrams	4	3
Power Electronics Application			
12	Demonstrate and apply introductory knowledge of digital electronics	4	4
13	Read and interpret diagrams of electrical /electronic appliances	4	3
14	Demonstrate and apply advanced knowledge of DC principles	4	3
15	Demonstrate and apply advanced knowledge of AC principles	4	4
16	Maintain and enhance professional and technical knowledge in the telecommunications Industry	4	4
17	Install, commission and maintain an Uninterruptible Power Supply (UPS) system	4	3
18	Demonstrate knowledge of semiconductor power devices	4	3
Electronics & Telecommunication			
19	Demonstrate and apply advanced knowledge of digital principles	4	8
20	Demonstrate and apply advanced knowledge of analogue electronics	4	8
21	Demonstrate and apply knowledge of advanced electronic measurement	4	8
22	Demonstrate and apply introductory knowledge of electronic engineering	4	6
23	Implement repair procedures to computer telecommunications products and services	4	8
24	Demonstrate systematic and logical fault-finding techniques in electronic products or systems	4	4
25	Demonstrate knowledge of data acquisition system	4	3
Generic Skills in Communication Electronics			
26	Communicate information in a specified workplace	4	3
27	Demonstrate knowledge of Mathematics	4	6
28	Process data using information technology	4	8
29	Demonstrate team building skills	4	3
30	Apply ethics pledge within his/her workplace	4	3
31	Demonstrate entrepreneurial competence	4	2
32	Demonstrate knowledge of green technology	4	1
33	Develop citizenship qualities	4	1
Total Credits			127

5. Purpose

This qualification is intended for people wishing to pursue a career in the field of Communications Electronics. People awarded with this qualification would have demonstrated the skills and knowledge required to work in the industry with little or no supervision. The qualification prepares the learner to work as Technician in the field of electronics and communication.

6. Qualification pathways:

Learners holding a qualification at Level 3 of the NQF are eligible for this qualification. Once awarded this qualification, learners can choose to enrol for the National Certificate Level 5 in Communication Electronics.

Special Note: ‘Unit Standards under ‘Generic skills’ should be adapted to suit Communication Electronics.