



MAURITIUS QUALIFICATIONS AUTHORITY

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**NATIONAL CERTIFICATE**

**LEVEL 4**

**IN**

**INDUSTRIAL ELECTRONICS**

## **National Certificate Level 4 in Industrial Electronics**

1. Level of qualification: 4
2. Total Credits: 141
- Review date: February 2026
4. Access to qualification

### **4.1 Entry information**

National Certificate Level 3 in Electrical Installations Work

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' experience in the 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>
1	Demonstrate knowledge of magnetism and electricity	4	3
2	Demonstrate knowledge of capacitors and semiconductor diodes	4	1
3	Demonstrate knowledge of Direct Current (D.C.) power supplies	4	2
4	Demonstrate knowledge of Alternating Current (A.C.) theory	4	4
5	Demonstrate and apply introductory knowledge of A.C. principles	4	3
6	Use electronic test equipment	4	3
7	Demonstrate knowledge of single-phase transformers	4	3
8	Demonstrate knowledge of earthing	4	1
9	Install earthing systems for multiple earthed neutral installations	4	2
10	Demonstrate and apply introductory knowledge of digital electronics	4	5
11	Demonstrate knowledge of safe working practices in the industry	4	4

12	Draw and explain simple electrical diagrams	4	4
13	Draw and interpret diagrams of electrical/ electronic appliances	4	4
14	Demonstrate knowledge of three phase theory	4	3
15	Demonstrate and apply advanced knowledge of analogue electronics	4	6
16	Demonstrate and apply advanced knowledge of digital principles	4	6
17	Demonstrate knowledge of semiconductor power devices	4	3
18	Demonstrate knowledge of transducers & their applications in industrial measurement	4	5
19	Demonstrate & apply knowledge of transducers & their interfaces with digital circuits.	4	8
20	Install, commission, and maintain an Uninterruptible Power Supply (UPS) system	4	3
21	Demonstrate knowledge of temperature measurement systems used in Industry	4	5
22	Demonstrate knowledge of pressure measurement systems used in Industry	4	6
23	Demonstrate knowledge of pneumatics and pneumatic power systems	4	5
24	Demonstrate knowledge of hydraulics and hydraulic power systems	4	5
25	Demonstrate knowledge of pneumatic control equipment used in Industry	4	4
26	Demonstrate knowledge of hydraulic control equipment used in Industry	4	4
27	Demonstrate systematic and logical fault-finding techniques in electronic products or systems	4	6
28	Maintain and enhance professional and technical knowledge in the Industry	4	4
<b>General Skills</b>			
29	Communicate information in a specified workplace	4	3
30	Demonstrate knowledge of mathematics	4	6
31	Process data using information technology	4	8
32	Demonstrate team building skills	4	4
33	Apply ethics pledge within his/her workplace	4	3
34	Demonstrate entrepreneurial competence	4	4
35	Demonstrate knowledge of green technology	5	1
<b>Total Credits</b>			<b>141</b>

## **5. Purpose**

This qualification is intended for people wishing to pursue a career in the field of Industrial Electronics. People awarded with this qualification would have demonstrated the skills and knowledge required to work in the industry with little or no supervision.