



MAURITIUS QUALIFICATIONS AUTHORITY

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**NATIONAL CERTIFICATE**

**LEVEL 3**

**IN**

**ELECTRICAL INSTALLATION**

**WORKS**

## **National Certificate Level 3 in Electrical Installation Works**

1. Level of qualification: 3
2. Total Credits: 117
3. Review date: July 2025
4. Access to qualification

### **4.1 Entry information**

National Certificate of Education (NCE)  
or  
National Certificate Level 2 in Electrical Installation Works  
or  
An equivalent qualification

### **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
<b>Safety in electrical works</b>			
01	Demonstrate knowledge of health and safety regulations in electrical installations	3	2
02	Observe safety precautions on construction site	3	2
03	Show ability to work in elevated positions	3	2
<b>Basic workshop skills for electricians</b>			
04	Use common electrician hand-tools.	3	2
05	Demonstrate basic workshop skills related to electrical trade	3	4
06	Demonstrate knowledge in soft soldering	3	2
<b>Basic electrical concepts</b>			
07	Demonstrate knowledge of basic electrical quantities	3	5

Unit No.	Unit Standard Title	Level	Credit
08	Use simple electrical measuring instruments	3	3
09	Demonstrate knowledge in electromagnetism	3	4
10	Demonstrate knowledge of alternating current characteristics.	3	5
11	Demonstrate knowledge of basic electronics	3	4
<b>Electrical cable</b>			
12	Demonstrate knowledge of different types of electrical cords and cables	3	2
13	Select appropriate size of cables	3	2
14	Terminate and join cables	3	3
<b>Lighting circuits</b>			
15	Demonstrate knowledge of commonly used electrical accessories	3	3
16	Mount and wire a single-phase Consumer Control Unit (CCU)	3	2
17	Demonstrate ability to safely isolate an electrical installation	3	2
18	Install incandescent lamps, Compact Fluorescent Lamps (CFL), Light Emitting Diode (LED) lamps and fluorescent lamps	3	3
19	Carry out fault findings on electrical circuits	3	2
<b>Power circuits</b>			
20	Wire circuits in PVC conduits, trunkings and on cable trays	3	2
21	Use portable power tools	3	2
22	Connect single phase transformers	3	3
23	Perform concealed wirings	3	2
24	Lay underground cables	3	2
25	Install earthing systems	3	2
26	Install an earth electrode	3	2
27	Install three-phase industrial socket outlets	3	3

Unit No.	Unit Standard Title	Level	Credit
<b>Testing of Electrical Installations</b>			
28	Test installations as per current regulations	3	2
29	Fill necessary documents related to testing	3	2
<b>DC and AC Motors</b>			
30	Sketch the circuit diagrams of commonly used single-phase power tools and apparatus	3	2
31	Demonstrate knowledge of single phase and three phase motors	3	2
32	Carry out electrical repairs on simple power tools and apparatus	3	2
33	Repair simple electronic circuits	3	2
<b>Associated Studies</b>			
34	Demonstrate effective communications skills	3	8
35	Demonstrate mathematical skills and knowledge	3	4
36	Demonstrate technical drafting skills	3	8
37	Demonstrate good work ethics	3	1
38	Demonstrate knowledge of and apply safety and health measures	3	1
39	Demonstrate knowledge of entrepreneurship development	3	2
40	Demonstrate knowledge of sustainable development	3	1
41	Demonstrate understanding and use of information technology	3	4
42	Demonstrate knowledge of physical education	3	4
<b>Total Credits</b>		<b>117</b>	

## 5. Purpose

This qualification represents a set of foundation skills for Electrical Installation Works. Holders of this qualification are able to install, maintain, and repair electrical wiring and equipment in residential and commercial environment.