



MAURITIUS QUALIFICATIONS AUTHORITY

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**NATIONAL CERTIFICATE**

**LEVEL 3**

**IN**

**INDUSTRIAL MACHINE MAINTENANCE**

# **National Certificate Level 3 in Industrial Machine Maintenance**

1. Level: 3
2. Total Credits: 105
3. Review Date: May 2026
4. Access to qualification

## **4.1 Entry information**

Form III or 9<sup>th</sup> Grade of the Nine Year Continuous Basic Education (NYCBE) or National Certificate of Education (NCE)

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**

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
<b>WORKSHOP SKILLS AND SAFETY</b>			
1	Select, use and care of engineering hand tools	3	1
2	Perform workshop operations using hand tools	3	9
3	Perform workshop operations using power tools	3	1
<b>MEASURING TECHNIQUES</b>			
4	Select, use and care for simple measuring devices used in engineering	3	2
5	Demonstrate knowledge of fits, limits and tolerances in engineering	3	1
6	Select, use and care for engineering dimensional measuring equipment	3	1
<b>BASIC ELECTRICITY AND SINGLE-PHASE ELECTRICAL INSTALLATION (DOMESTIC)</b>			
7	Demonstrate knowledge of magnetism and electricity	3	4
8	Use simple electrical measuring equipment	3	2
9	Demonstrate knowledge of commonly used accessories	3	2
10	Draw and interpret electrical diagrams	3	2
11	Mount and wire a single-phase consumer control unit	3	1
12	Maintain single-phase electrical system	3	5

<b>MECHANICAL PRINCIPLES</b>			
13	Select and use fasteners	3	2
14	Perform shaft alignment in a system	3	1
15	Maintain mechanical power transmission	3	8
16	Understand repair technology	3	1
17	Perform basic workshop operations	3	12
<b>COMMERCIAL AND INDUSTRIAL ELECTRICAL INSTALLATIONS</b>			
18	Demonstrate knowledge of alternating current characteristics	3	2
19	Demonstrate understanding of simple three-phase circuits	3	2
20	Maintain electrical power transmission systems	3	3
21	Install a direct-on-line (DOL) starter	3	1
22	Install a forward-reverse DOL starter	3	1
23	Install a star-delta starter	3	1
24	Install soft starter for different motors	3	1
<b>ENGINEERING SCIENCE</b>			
25	Demonstrate knowledge of engineering fundamentals	3	6
<b>ASSOCIATED STUDIES</b>			
26	Demonstrate effective communications skills	3	8
27	Demonstrate mathematical skills and knowledge	3	4
28	Demonstrate technical drafting skills	3	8
29	Demonstrate good work ethics	3	1
30	Demonstrate knowledge of and apply safety and health measures	3	1
31	Demonstrate knowledge of entrepreneurship development	3	2
32	Demonstrate knowledge of green technology	5	1
33	Demonstrate understanding and use of information technology	3	4
34	Demonstrate knowledge of physical education	3	4
<b>Total Credits</b>			<b>105</b>

## 5. Purpose

This qualification is intended for people wishing to pursue a career in the field of Industrial Machine Maintenance. The qualification would enable learners to acquire skills and knowledge in basic workshop skills, engineering science, measuring techniques, electrical installation works and mechanical principles, to operate in the industry, under supervision.