



MAURITIUS QUALIFICATIONS AUTHORITY

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**NATIONAL CERTIFICATE**

**LEVEL 4**

**IN**

**SUSTAINABLE AGRICULTURE**

## **National Certificate Level 4 in Sustainable Agriculture**

1. **Level of qualification:** 4
2. **Total Credits:** 117
3. **Review date:** July 2029
4. **Access to qualification**

### **4.1 Entry information**

National Certificate Level 3 in Agriculture/ Landscaping/ Hydroponic Operations

**Or**

Completion of Grade 11 of the NYCBE

**Or**

An alternative qualification in the field 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**

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
<b>Introduction to Sustainable Agriculture</b>			
1.	Demonstrate knowledge of the evolution of agriculture	4	2
2.	Demonstrate understanding of Agricultural practices in the circular economy	4	3
3.	Demonstrate understanding of sustainable agriculture practices	4	2
<b>Organic Farming</b>			
4.	Demonstrate understanding of organic farming	4	2
5.	Implement biological pest control and integrated pest control methods	4	3

6.	Follow sustainable procedures for biosecurity	4	3
<b>Efficient Irrigation Techniques and Water Conservation</b>			
7.	Demonstrate knowledge of water conservation and efficient irrigation	4	4
8.	Set up, operate and maintain water efficient irrigation systems	4	3
<b>Sustainable Open Field Cultivation</b>			
9.	Prepare soil for cultivation	4	3
10.	Select, plant and grow horticultural crops for sustainable agriculture	4	3
11.	Perform cultural practices for care of plants in open field for sustainable agriculture	4	3
12.	Carry out composting procedures	4	3
<b>Post Harvesting</b>			
13.	Apply post harvesting techniques for horticultural products	4	3
14.	Demonstrate understanding of sales and marketing of Agro-products	4	1
<b>Green Infrastructure and Urban Agriculture</b>			
15.	Demonstrate knowledge of green infrastructure and urban agriculture	4	2
16.	Plan and design green infrastructure and urban agriculture	4	3
17.	Set up and maintain green infrastructure	4	3
<b>Sheltered Farming</b>			
18.	Demonstrate knowledge of the different types of structures for sheltered farming	4	3
19.	Demonstrate knowledge of the infrastructure requirements for sheltered farming	4	3
20.	Grow different types of plants in a shelter	4	5
<b>Hydroponics</b>			

21.	Set up and configure a hydroponic system	4	2
22.	Apply fertigation methods	4	3
23.	Operate the hydroponic system by growing different crops	4	3
24.	Maintain the hydroponic structure and system	4	3
<b>Aquaponics</b>			
25.	Demonstrate knowledge of aquaponics systems used in Mauritius	4	3
26.	Operate an aquaponics system by cultivating fish and growing crops	4	3
27.	Maintain an aquaponics system	4	3
<b>Emerging Technologies</b>			
28.	Apply new/emerging farming technologies	4	3
29.	Demonstrate understanding of sustainable animal husbandry	4	3
<b>Associated Studies</b>			
30.	Demonstrate effective communications skills	4	8
31.	Perform calculations related to the trade	4	4
32.	Demonstrate technical drafting techniques	4	8
33.	Demonstrate proper work ethics	4	1
34.	Demonstrate understanding of Occupational Safety and Health	4	1
35.	Demonstrate knowledge of entrepreneurship development	4	2
36.	Demonstrate knowledge of sustainable development	4	1
37.	Demonstrate understanding and use of information technology	4	4
38.	Demonstrate knowledge of good citizenship	4	1
39.	Demonstrate knowledge of physical exercises and sport activities	4	4
<b>Total Credits</b>			<b>117</b>

**5. Purpose:**

This qualification is intended for people wishing to pursue a career in the field of Sustainable Agriculture. The qualification would enable learners to acquire skills and knowledge required to operate as skilled farmers in crop production.

**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 higher levels of the NQF in the field.