



MAURITIUS QUALIFICATIONS AUTHORITY

MAURITIUS QUALIFICATIONS AUTHORITY

NATIONAL CERTIFICATE

LEVEL 3

IN

HYDROPONIC OPERATIONS

National Certificate Level 3 in Hydroponic Operations

1. Level of qualification: 3
2. Credit total: 120
3. Review date: June 2030
4. Access to qualification

4.1 Entry information

Form III/Grade 9

Or

An alternative acceptable qualification at Level 2 of the NQF

4.2 Recognition of prior learning

Potential candidates holding at least 3 years of working experience in the relevant field may obtain this qualification through Recognition of Prior Learning (RPL) process.

5. Award of qualification requirements

Unit No.	Unit Standard Title	Level	Credit
Introduction to Agriculture			
01	Demonstrate knowledge of horticulture	3	4
02	Demonstrate knowledge of plants	3	4
Plant Growth and Development			
03	Demonstrate knowledge of plant growth and Development	3	4
04	Demonstrate knowledge of growing media	3	4
05	Demonstrate knowledge of plant nutrition, fertilisers and hydroponic fertilisers	3	4
06	Apply different cultural practices in hydroponic cultivation	3	4
07	Identify Environmental Factors in Protected Structures	3	3
08	Demonstrate knowledge of types of greenhouses and their components	3	3

Crop Husbandry			
09	Demonstrate knowledge of hydroponic production	3	3
10	Demonstrate knowledge of fertigation	3	5
11	Demonstrate knowledge of nutrient solution	3	4
12	Prepare structure for production	3	3
13	Raise seedlings for hydroponic production	3	3
14	Plant crops under hydroponic system	3	20
15	Harvest Crops	3	3
16	Demonstrate knowledge of post- harvest practices	3	3
17	Demonstrate knowledge of pre and post-cyclonic management practices	3	3
18	Demonstrate knowledge of hydroponic waste management	3	3
19	Demonstrate knowledge of composting	3	3
20	Demonstrate knowledge of greenhouse pests and diseases	3	3
21	Describe plant pest and disease control methods	3	3
22	Demonstrate knowledge of pesticides and their impact	3	3
23	Demonstrate knowledge of greenhouse maintenance	3	3
Good Agricultural Practices			
24	Demonstrate knowledge of workplace hygiene and food safety requirements and maintain personal hygiene	3	3
25	Demonstrate knowledge of Good Agricultural Practices (GAP) and the MauriGAP standards	3	2
26	Demonstrate Knowledge of and Apply Green Technology Practices	3	3
Generic/Interpersonal in Hydroponic Operations			
27	Participate in groups and/or teams to gather ideas and information	3	2
28	Perform calculations for the workplace	3	3

29	Receive, transmit and store information within the workplace	3	3
30	Develop personal performance and maintain working relationships	3	3
31	Demonstrate basic knowledge of ICT	3	3
32	Demonstrate basic knowledge of workplace operational health and safety procedures	3	3
	Total Credits		120

6. Purpose

This qualification provides learners with knowledge, skills and attitude to work in the hydroponic cultivation.

People who have completed the National Certificate Level 3 in Hydroponic Operations will be able to demonstrate fundamental knowledge and practical skills relevant to the cultivation of plants through hydroponics.

7. Qualification pathways:

Upon successful completion of the National Certificate Level 3 in Hydroponic, learners can choose to enroll for the National Certificate 4 in Sustainable Agriculture.

Special note: Unit Standards under ‘Generic/Interpersonal’ should be adapted to suit Hydroponics Operations.