Projacs
an egis company
بروجاكس للتدريب والتطوير
Projacs Training and Development

Aquaponics System design parameters

تصميم نظام الزراعة المائية

23 – 27 August 2020

Dubai / United Arab Emirates

A Member of:
PROJACS ACADEMY

ProjacsAcademy.com

Introduction

Aquaponics is scalable. You can start off with a small farm system and scale up as resources and markets develop.
There is a marked difference in operating a system for profit as opposed to a home system, in terms of productivity and efficiency. When you are making a living, decisions are crucial. Murray will show you how to streamline your operation and calculate ratios and timings for optimum performance.

Objectives

People of all ages have taken the courses successfully. Some mid-career people see it as an opportunity to start a new business and some people just want to learn how to grow their own healthy fish and vegetables easily.
If you want to start a business using Aquaponics, there are many factors to consider which he will outline and provide you in the course. You will receive the tools to make informed decisions about your business.
Will explain in depth the components and functions in his model for Commercial Aquaponics systems, which have been built in various configurations throughout the world. Graphics and animations allow you to see exactly how they work.
This course will teach you how to build a system for your situation which will reap you rewards.

Who Should Attend?

The Aquaponics Design Course caters for all skill levels. From an absolute beginner to someone who has been operating their own system for a while and are ready to scale up.

Course Outline

Day 1

- Introduction
- Aquaponics- the Basics
- History of Aquaponics
- Cycling the System
- System Components
- DWC
- Media Beds
- NFT
- Hydroponics V Aquaponics
- Decoupled Systems
- Parameters
- Water Testing
- Why Does pH Trend Down?
- Additives for Adjusting pH
- Water Source

Day 2

- Autosiphons
- Calculating Flow Rates
- Aeration and Filtration
- When to Add a Filter
- Dissolved Oxygen
- Back Up Systems
- Vertical Growing
- How to Build GroPocket Towers
- Plumbing Components
- Reusing Plumbing Fittings
- What is FloMedia ?
- FloMedia Walk Through
- FloMedia Water Flow Gravity
- FloMedia Timber Bed Construction

- Folding the Liner
- FloMedia- Floating Rafts
- FloMedia Polystyrene
- FloMedia Maintenance
- FloMedia Pest Control

Day 3

- Acclimatising Seed
- Papaya Seed Saving
- FloMedia Seed Saving
- FloMedia Conclusion
- Raising the Grow Beds
- Cleaning the Media Beds
- Settlement Tanks
- Radial Flow Filter
- Building a Wicking Bed
- Growing Seedlings
- Building on a Slope Intro
- Building on a Slope - Case Study
- Building on a Slope Summary

Day 4

- UVI System Explained
- Commercial Filters
- Commercial - Running A Hybrid
- Commercial Aeration System
- Commercial Aquaponics Solving Problems
- Common Problems
- Hoop Greenhouses
- Passive Heating
- Fish Health Checklist
- Salting New Fish
- Calming Fish with Cloves
- What to Feed Your Fish – Alternatives

Day 5

- Pumps -Water
- Going Solar
- Pumps-Solar
- Pumps- Fail Points in 24V pumps
- Solar The Battery Bank- 5:30mins
- Solar Conclusion
- Fixing Nutrient Deficiencies
- Plant Nutrient Deficiency
- Blossom End Rot
- Plant Nutrients
- Brix Testing Fruit
- Introduction to Pest Management
- Pest Management
- Business Plan Tool - Simple
- Business Plan - Detailed
- Mind Mapping
- Design Exercise Criteria

Training Method

- Pre-assessment
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a binder containing a copy of the presentation
- slides and handouts
- Post-assessment

Program Support

This program is supported by interactive discussions, role-play, and case studies and highlight the techniques available to the participants.

Schedule

The course agenda will be as follows:

- Technical Session 08.30-10.00 am
- Coffee Break 10.00-10.15 am
- Technical Session 10.15-12.15 noon
- Coffee Break 12.15-12.45 pm
- Technical Session 12.45-02.30 pm
- Course Ends 02.30 pm

Course Fees*

- **2,950USD**
  **VAT is Excluded If Applicable*