



Aquaculture and Aquaponics Training Courses

At **Aquaculture Innovations** we continuously strive to provide high quality Aquaculture Training Courses to directly meet needs within the Industry. We have teamed up with Urban Aquaponics in Gerardsville, Pretoria, South Africa, to provide exactly this sort of Practical Training Experience, and who continuously is expanding to cover new technologies and offer training in additional areas. All of our training programs are run through our company **Aquaponics Innovations**. The primary focus of our Aquaculture and Aquaponics Training is on the practical components and disciplines that one needs to master in order to be a successful Fish Farmer or Aquaponist.

We currently offer the Aquaculture Training Courses listed in the following pages of this eBrochure.

Courses:

- **Practical Fish Farmer Course** (5 days of life on a fish farm - Pretoria) 30 Nov – 4 Dec 2020
- **Fish Farm System Management Course** (3 days theory – Pretoria) 21-23 October 2020
- **Aquaponics Course** (2 day theory & practical – Pretoria) 19-20 October 2020
- **Introductory Aquaponics Short Course** (1 Day – Pretoria) 17 October, 31 October 2020

Terms:

- We reserve the right to postpone a Course that does not have adequate delegates.
- Full payment is required with Registration to secure your booking.
- Bookings close on the Wednesday prior to each Course, or once we have the maximum number of delegates Registered for a Course, whichever comes first.
- If we cancel a Course we automatically move your Registration to the following dates on which the same Course is offered. There is no charge for this, including for the changed accommodation dates if we booked for you. If this does not suit you we will refund you in full less a 10% administration fee.
- If you cannot attend a Course at short notice we automatically move your Registration to the following dates on which the same Course is offered. There is no charge for this, but you will be charged to alter the accommodation dates if we booked for you, if the establishment at which you were booked levies such a fee.
- Course Refund Policy: up to 4 weeks prior to the Course 70%, 2 – 4 weeks prior 40%, <2 weeks = no refund.

Aquaculture Innovations contact details

www.aquafrica.co.za info@aquafrica.co.za Tel: +27 46 622 3690

Alan Bell (Aquaponics Course April 2015; Aquaculture Course May 2015): Your knowledge is extensive, the course content is insightful, and your ability to convey that to a broad cross-section of types of attendees with widely disparate knowledge levels shows great people skills. The attention to detail you and your team exercise got every facet of the course right from content to catering - congrats.

Fish Farm System Management



Primary focus:

This Course is a fast paced introduction to running a fish farm. We go through an enormous amount of theory as well as conducting the corresponding practical exercises. The purpose of this Course is to expose delegates to the disciplines involved in successful fish farm management from the perspective of the potential investor or farm manager, and thus includes a section on Fish Farm economics and a look at some stylised examples.

Duration and Dates:

This Course is run over 3 days, dates: 21-23 October 2020

Venue:

Urban Aquaponics, Centurion, Pretoria

Agenda:

Aquaculture 3 Day System Management Course		
D a y 1	8 ⁰⁰ - 9 ⁰⁰	Industry Overview
	9 ⁰⁰ - 10 ³⁰	Facility Tour
	10 ³⁰ - 11 ⁰⁰	Tea
	11 ⁰⁰ - 12 ³⁰	Reproduction
	12 ³⁰ - 1 ³⁰	Lunch
	1 ³⁰ - 2 ³⁰	Earth Ponds and Cages
	2 ³⁰ - 3 ⁰⁰	Cages
	3 ⁰⁰ - 3 ³⁰	Tea
D a y 2	3 ³⁰ - 4 ⁰⁰	Aquaponics
	8 ⁰⁰ - 9 ⁰⁰	Feeding Fish
	9 ⁰⁰ - 10 ³⁰	Live Feed
	10 ³⁰ - 11 ⁰⁰	Tea
	11 ⁰⁰ - 12 ³⁰	Water Quality and Testing
	12 ³⁰ - 1 ³⁰	Lunch
	1 ³⁰ - 2 ³⁰	RAS
	2 ³⁰ - 3 ⁰⁰	RAS
D a y 3	3 ⁰⁰ - 3 ³⁰	Tea
	3 ³⁰ - 4 ⁰⁰	Legislation
	8 ⁰⁰ - 9 ⁰⁰	Tilapia
	9 ⁰⁰ - 10 ³⁰	Catfish and Trout
	10 ³⁰ - 11 ⁰⁰	Tea
	11 ⁰⁰ - 12 ³⁰	Fish Physiology and Health
	12 ³⁰ - 1 ³⁰	Lunch
	1 ³⁰ - 2 ³⁰	Stock Management
	2 ³⁰ - 3 ⁰⁰	Marketing
	3 ⁰⁰ - 3 ³⁰	Tea
	3 ³⁰ - 4 ⁰⁰	Economics and Examples

Who should attend:

Investors considering aquaculture and needing guidance on which route to follow; Fish farm managers; Fish farm supervisors.

Cost

R5 950 per delegate. This fee includes the Aquaculture Course Manual and notes, lunch and tea on each day of the Course.

Certification:

Delegates receive a Certificate of Attendance.



Practical Fish Farmer Course



Primary focus:

This Course is the ultimate Fish Farmer Training Course and aims to hone skills through repetition of the primary tasks needed to be a successful Fish Farmer. Each day we go through the typical activities that would be conducted on a commercial Fish Farm, along with the necessary theory for the delegate to understand and experience what it takes to successfully produce Fish in a Recirculating Aquaculture System. Although this Course focusses on tilapia farming, many of the skills learned will be of equal use to other forms of fish farming and some practice with other species is included.

The mantra of this Course is:

I hear and forget

I see and remember

I do and I understand

Duration:

This Course is run over 5 days to experience the primary components on a fish farm.

Practical Aquaculture Course Agenda

Time	Day 1	Day 2	Day 3	Day 4	Day 5
8 ⁰⁰ - 9 ⁰⁰	Introduction	Cages	Feed/WQ	Feed/WQ	Tilapia
9 ⁰⁰ - 10 ³⁰	Industry overview	Earth ponds	RAS	Aquaponics components	Catfish
10 ³⁰ -11 ⁰⁰	Tea	Tea	Tea	Tea	Tea
11 ⁰⁰ -12 ⁰⁰	Breeding	Water Quality	RAS	Crop selection	Trout
12 ⁰⁰ -12 ³⁰	Breeding tilapia	Water Quality	RAS view systems	Aquaponics management	Feed back & test
12 ³⁰ -1 ⁰⁰	Breeding catfish	Feeding Fish	Siphon tanks	Stock management	Economics
1 ⁰⁰ -1 ⁴⁵	Lunch	Lunch on the go	Lunch	Lunch	Lunch
1 ⁴⁵ -2 ⁴⁵	Breeding Trout	Farm Visit	Basic fish Anatomy and Physiology	Stock management	Closure
2 ⁴⁵ -3 ³⁰	Good husbandry	Intergrated Aquaculture	"Stress" and Fish Health	Sorting & Counting	
3 ³⁰ -4 ⁰⁰	Legislation		Fish farm bio-security	Feeding Fish	

Each day starts with water quality management and feeding, whereafter the tasks for that day are conducted between theory and further feeding events. We cover everything: health management, water quality, filtration, aeration, feeding, breeding, purging, transporting in bags vs tanks, stock management, siphoning, record keeping, dissections, handling fish, size sorting and counting.

Dates:

30 November – 4 December 2020(Pretoria)

Venue:

Urban Aquaponics, Centurion, Pretoria

Who should attend:

Investors considering aquaculture and needing guidance on which route to follow; Fish farm managers; Fish farm supervisors.

Cost:

R9 950.00 per delegate. This fee includes the Aquaculture Course Manual and a main meal on each day of the Course.

Delegates also come away with charts on diseases and treatments, water quality management tools, System Management spreadsheets in Excel format, a Weekly Farm Management Program and other useful tools for managing a fish farm

Certification:

Delegates receive a Certificate of Attendance.



Aquaponics Course



Primary focus:

Aquaponics is the combination of fish aquaculture and plant hydroponics in a single system, where the waste of one system becomes the nutrient source for the next. With growing awareness of the need to reduce our footprint on this globe there is a massive amount of interest in developing systems that provide wholesome crops in a manner that is environmentally sustainable and energy efficient. Aquaponics is just such a solution. Delegates will be given the theory on aquaponics; both the plant and fish crop sides, along with practical demonstrations.

Agenda:

Commercial Aquaponics Course		
	Day 1	Day 2
8.00 am	Aquaponics overview	Feeding the fish
9.00 am	Facility tour	Live feeds
10.30 am	Tea	
11.00 am	System components	Selecting crops
12.00 pm	Legislation	Starting a system
12.30 pm	Lunch	
1.30 pm	Water quality	System Management
2.30 pm	Water quality	Crop health
3:00 pm	Tea	
3:30 pm	Marketing	Economics
4:00 pm	Closure	

Dates:

19-20 October 2020 (Pretoria)

Venue:

Urban Aquaponics, Centurion, Pretoria

Who should attend:

This Course is suitable for both commercial aquaponics farmers and people wanting to raise small amounts of fish and vegetable crops for own consumption.

Cost:

R4 750 per delegate. This fee includes the Aquaponics Course Manual, lunch and tea each day of the course.

Certification:

Delegates receive a Certificate of Attendance.



Introductory Aquaponics Short Course

Primary focus:

The Introduction to Aquaponics course presented on Saturdays is designed especially for those who have gained an initial interest in the science and are keen to learn a bit more. This one day introduction course is presented on a working commercial Aquaponics farm where all the elements can be demonstrated. With growing awareness of the need to reduce our footprint on this globe there is an increasing amount of interest in developing systems that provide wholesome crops in a manner that is environmentally sustainable and energy efficient. Aquaponics is just such a solution. Delegates will be given the introductory theory on Aquaponics; both the plant and fish crop sides, along with practical demonstrations.

Agenda:

Time	Saturday
8am	Introduction and our journey
9am	Farm walkthrough and practical introduction to different systems.
10:30am	Tea on the fish house deck and introduction to Fish species
11am	Fish choices Advantages and disadvantages
12pm	Water quality
13:00	Lunch
13:45	Crop selection
14:30	Introduction to the association other courses and product availability.
14:45	Afternoon Tea
15:00	Industry regulations and permits
15:30	Open discussions, further question and product packaging for take way bag.
16:00	Closing

Dates:

17 October 2020

31 October 2020

Venue:

Urban Aquaponics, Centurion, Pretoria

Who should attend:

This Course is suitable for entrants into Aquaponics farming and people wanting to raise small amounts of fish and vegetable crops for own consumption.

Cost:

R950.00 per delegate. This fee includes a light lunch and tea and a gift pack of produce at the end of the day.

Certification:

Delegates receive a Certificate of Attendance.



Aquaculture and Aquaponics Trainer

Neale Strauch



All these Courses are conducted by Neale Strauch.

Neale, a Systems Engineer got involved with the Science of Aquaponics 6 years ago.

A natural interest in farming methods combined with the drive to measure, created an intense fondness in the Science of Aquaponics which by virtue of its nature involved Aquaculture.

Starting with a hobby system and soon grew in his back yard in the suburbs of Pretoria is a NFT system with Tilapia and a 1000 plants 6 years ago, was reasonably successful with weekly deliveries to selective restaurants.

He now owns Urban Aquaponics, a commercial system with 6 tunnels and a large fish house, for the specie of choice which is Rainbow Trout. The tunnels house both an NFT system and DWC, growing a range of greens for prestige clients.

Neale has first-hand knowledge of a commercial system and has attended just about every course available in South Africa and other online courses that are available. His drive to get Aquaponics featured in retail markets and to aid other growers has taken him down the road of serving as PR and Chairman of the association with discussions on the table with government departments to recognise Aquaculture and Aquaponics as a worthy farming technology.

Branching further into this space he has now decided to take up the challenge of training together with Aquaculture Innovations. The new training facility presently being built will be a state of the art facility. Aiming to have underwater cameras viewing fish and plants in their growing habitat. All methods of growing will be demonstrated ranging from NFT, DWS, Flood and drain system and Wicking.

“When you can measure what you are speaking about,
and express it in numbers, you know something about it”

Lord Kelvin