2-Day Aquaponics Training

Income Generation  ■ Food Security  ■ School Feeding Schemes  ■ Climate Change Resilience

25-26 August 2017
9 am - 5 pm
Rand Vaal Primary School
Johannesburg

01-02 September 2017
9 am - 5 pm
NMMU, Missionvale Campus
Port Elizabeth

Take the Plunge into the Future of Agriculture

Don’t miss this unique opportunity to learn about the exciting field of aquaponics from the world’s leading experts. INMED Partnerships for Children has installed dozens of commercial and small-scale aquaponic systems in South Africa, Jamaica and Peru to provide year-round, climate change-resilient crop production for families, communities, schools and businesses. An innovative and highly intensive food production technique, aquaponics combines aquaculture (fish farming) with hydroponics (soilless crop growing) in a closed system that is easily scalable. Benefits include no chemicals or fertilizers, crop production at least 10 times higher than traditionally cultivated plots of equivalent size and up to 90% less water consumption.

This workshop is ideal for small-scale farmers, those who work in the development sectors and government extension officers who want to take the leap into aquaponics. The workshop includes:

- 8 modules on aquaponics (comprehensive)
- In-depth manual on aquaponics
- Industry-leading instructors
- Tea and lunch
- Hands-on session on an operational aquaponics unit
- Guidance on how to get started

COST  R 3,000.00
(Includes comprehensive training materials, refreshments, lunch and certificate of attendance)

REGISTER
For more information and registration forms, please contact Janet Ogilvie at 011 486 1090 or e-mail jogilvie@inmed.org

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Course content is based on more than 40 years of collective experience in the field of adaptive agriculture and aquaponics. The modules include both theory and practical sessions. At the end of this workshop, participants will have the basic knowledge and resources they need to pursue a home, school or commercial aquaponics project.

Topics covered during this 2-day workshop include:

- **What is Aquaponics?**
  Participants will learn the basics of aquaponics from international and local experts, including benefits of the technology as well as different types of systems.

- **Getting Started with Aquaponics**
  This module explores all necessary considerations before starting an aquaponics enterprise. Topics include site selection, essential components and complementary elements, such as greenhouse structures, solar power and water harvesting systems.

- **Fish Tanks and Water Quality**
  Learn the basics of water chemistry, including how to measure and manage water in an aquaponic environment. Other topics include managing algae growth, selection of fish breeds, feeding and care, as well as management of fish diseases.

- **Plant Production**
  Explore the role of grow beds in oxygenation and water circulation, preparation of grow beds, selection of plants and choice of production systems.

- **Hands-on Demonstration of a System**
  INMED has commercial aquaponic units in operation at both workshop locations. Participants will be guided through the design and management of the system.

- **Maintenance and Monitoring**
  Aquaponic systems require regular monitoring and ongoing maintenance. This module will enable participants to cost-effectively manage their units. Topics include general maintenance, record keeping, managing power outages and pump failures.

- **Troubleshooting**
  This module will impart the wisdom and lessons learned from INMED’s many aquaponics projects, including how to avoid plant nutrient deficiencies, fish mortality, water quality issues, blockages, overflows, leaks, etc.

- **Aquaponics as a Business Enterprise**
  This module will enable participants to grasp basic principles of turning crops into cash and prepare them for long-term success. Various topics, including business management, financial analysis and marketing plans, will be explored.

### About the Instructors

- **Thad Jackson, Ph.D.** is Executive Vice President of INMED and a pioneer of adaptive agriculture. In addition to bringing simple, low-cost aquaponics to the masses, he has led health and agriculture initiatives for such international organizations as the US National Institutes of Health, USAID, the United Nations and Save the Children. Johns Hopkins University and was on the US delegation to FAO for Codex Alimentarius.

- **Khumbudzo Manyaga** is a highly experienced adaptive agriculture and aquaponics specialist with degrees in agriculture and plant production and is currently conducting research at the University of the Witwatersrand. As INMED South Africa’s Adaptive Agriculture Program Manager, he provides expertise in crop production, rural development, natural resource conservation and global environmental change.

- **Janet Ogilvie** has extensive experience in aquaponics technology, bookkeeping, business planning and project costing. As INMED South Africa’s Operations Manager, she is highly adept at providing operational support and sourcing supplies for aquaponic system construction, maintenance and troubleshooting.

Learn more about INMED Aquaponics at [https://inmed.org](https://inmed.org)