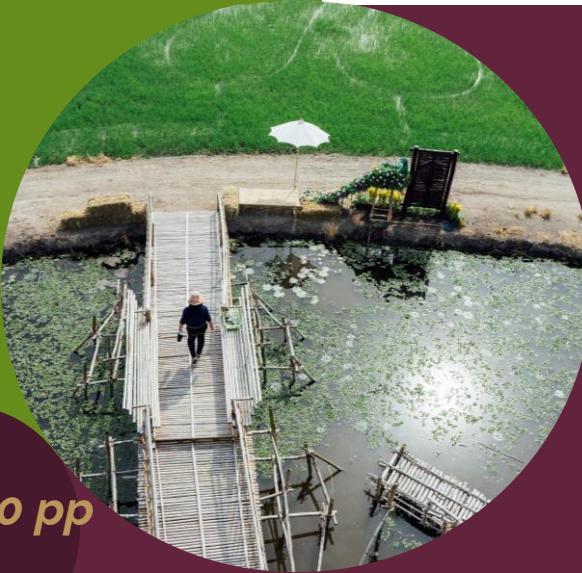# AQUACULTURE PRODUCTION & MANAGEMENT

March 2026-November 2026   R9900 pp
Minimum requirements: Grade 12 certificate

Stellenbosch
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forward together
sonke siya phambili
saam vorentoe

Objective:

Aquaculture development in Southern Africa is hampered by a lack of skilled workforce. Local opportunities for training in aquaculture are limited. A career in Aquaculture means that you are part of a great challenge: feeding our people and ensuring that everything that makes this planet special is preserved for future generations. Aquaculture development is vital to meet the basic needs of billions of people; yet how can we achieve this without damaging our resources, and compromising the ability of future generations to meet their needs? We require professionally skilled people who understand burning issues and offer solutions and leadership to the future.

Course content:

1. **Applied Biology of Aquaculture Species**
   Species: Fresh and Saltwater i.e. Rainbow Trout, Carp, Tilapia, Catfish, Abalone, Mussels and Oysters

2. **Physiological Systems and Applied Biology:** Respiratory and Recirculatory systems; Digestive, Osmoregulation and Endocrine systems; Nerve, Skeletal and Muscle systems

3. **Nutrition and Feeding of Aquaculture Species**
   Nutritional requirements; live feeds. Formulation and manufacturing of artificial feed. Feed management: Application and Monitoring

4. **Water Ecology**
   Summary of Water Quality Parameters; Monitoring and Management of Water Quality

5. **Production Systems**
   Design and System Management , Site & Species Selection

6. **Processing and Product Development**
   Processing, Storage & Quality Control; Product Development

7. **Fish disease and Health Management**
   Disease recognition and identification; treatment and prevention. Common diseases of fish and shellfish

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