



AGRICULTURE AND AGRIBUSINESS

Aquaculture and Fish Farming Operations

3 day course

Classroom, online or in-house

Course overview

Fish live in the medium that carries their waste, so water quality is not a condition of production, it is the production system, and most losses on a fish farm are water quality events that happened overnight. This course starts with the water. Delegates work through dissolved oxygen, the daily cycle driven by algae and the early morning minimum that kills stock. Ammonia, nitrite and pH are covered with their interactions and the aeration and exchange that control them. Site and system selection follow across ponds, tanks, raceways and cages, with the water supply each demands. Species selection is addressed, principally tilapia and catfish, with the temperature and market fit of each. Stocking density, grading and the growth monitoring that supports feeding are covered. Feeding is addressed as the largest cost, including feed conversion, ration and the overfeeding that pollutes the pond. Fingerling supply and hatchery basics follow. Health and biosecurity are covered. The course closes on harvest, handling and cost per kilogram produced.

What you will learn

- Manage the daily dissolved oxygen cycle and its early morning minimum
- Control ammonia, nitrite and pH through aeration and exchange
- Select ponds, tanks, raceways or cages against water supply
- Choose species on temperature tolerance and market fit
- Set stocking density and grade to support even growth
- Feed to conversion without polluting the system
- Source fingerlings, maintain biosecurity and cost production per kilogram

Who should attend

- Fish farm managers and technicians
- Aquaculture extension officers
- Hatchery staff
- Entrepreneurs entering aquaculture
- Development programme staff supporting fish farming

Course outline

- 01 The water is the production system
- 02 Dissolved oxygen and the daily cycle
- 03 Ammonia, nitrite, pH and aeration
- 04 Ponds, tanks, raceways and cages
- 05 Species selection and market fit
- 06 Stocking density, grading and growth monitoring
- 07 Feeding, conversion and overfeeding
- 08 Fingerlings, health, harvest and cost per kilogram

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 23 September 2026	Online	Online	R6,500
9 to 11 December 2026	Lagos, Nigeria	Classroom	USD 995
21 to 23 December 2026	Durban, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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