



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Demonstrate An Understanding Of Fishing Related Technology Training

Services / Transport, Operations and Logistics

Unit Standard 119847 · NQF Level 4 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to understand and apply fishing-related technology in the South African context. Participants will explore various technological tools and systems used in modern fishing practices, enabling them to enhance operational efficiency and sustainability. The course bridges the gap between traditional fishing methods and contemporary technological advancements.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	119847
Accreditation	SAQA Accredited · NQF Level 4 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate an understanding of the principles and applications of fishing-related technology.
- Apply appropriate technology to improve fishing efficiency and sustainability.
- Analyze the impact of technology on fishing practices and resource management.
- Evaluate the benefits and limitations of various fishing technologies.
- Implement basic troubleshooting and maintenance procedures for fishing technology equipment.
- Comply with relevant regulations and safety standards when using fishing technology.

WHO SHOULD ATTEND

- This course is designed for fishing industry professionals, fisheries managers, and technicians who wish to integrate technology into their daily operations.
- It is also suitable for individuals seeking to enter the fishing sector with a foundational understanding of relevant technologies.

COURSE OUTLINE

Day 1: Introduction to Fishing Technology and Industry Context

- Overview of the fishing industry in South Africa.
- Historical development of fishing technology.
- Categories of fishing technology: navigation, communication, fish finding, and gear.
- Introduction to sustainable fishing and technology's role.
- Basic terminology and concepts.
- Regulatory framework and SAQA requirements.

Day 2: Navigation and Positioning Systems

- Global Positioning System (GPS) fundamentals.
- Electronic chart plotters and digital maps.
- Setting and following waypoints and routes.
- Integration of GPS with other onboard systems.
- Safety considerations and emergency procedures.
- Practical exercises in chart plotting.

Day 3: Fish Finding Technology

- Principles of echo sounders and sonar.
- Types of fish finders: single beam, dual beam, and multibeam.
- Understanding frequency, cone angle, and power.
- Reading sonar displays: fish arches, thermoclines, and bottom hardness.
- Side-scan and down-scan imaging.
- Practical sessions with fish finder simulators.

Day 4: Communication Systems at Sea

- VHF marine radio: channels, protocols, and licensing.
- Digital Selective Calling (DSC) and emergency beacons.
- Satellite communication systems (Inmarsat, Iridium).
- Intercom and onboard communication networks.
- Weather fax and information services.
- Practical radio communication drills.

Day 5: Fishing Gear Technology and Automation

- Types of fishing gear: trawls, longlines, purse seines, and traps.
- Sensors and instrumentation on fishing gear.
- Net monitoring systems (trawl eyes, catch sensors).
- Winch control and automation systems.
- Selective fishing technologies to reduce bycatch.
- Maintenance and troubleshooting of gear electronics.

Day 6: Data Management and Electronic Logging

- Electronic fishing logbooks (EFL) and software.
- Catch documentation and traceability systems.
- Vessel Monitoring Systems (VMS) and AIS.
- Data analysis for fishing patterns and stock assessment.
- Integration of data from multiple sources.

- Practical data entry and reporting exercises.

Day 7: Safety and Emergency Technology

- Emergency Position Indicating Radio Beacons (EPIRBs).
- Search and Rescue Transponders (SARTs).
- Personal locator beacons (PLBs) and man-overboard systems.
- Life raft equipment and emergency lighting.
- Fire detection and suppression systems.
- Safety drills and simulation exercises.

Day 8: Environmental Monitoring and Sustainable Practices

- Oceanographic sensors: temperature, salinity, currents.
- Satellite imagery and sea surface temperature mapping.
- Bycatch reduction devices (BRDs) and turtle excluders (TEDs).
- Ecosystem monitoring and data collection.
- Compliance with environmental regulations.
- Case studies on sustainable technology use.

Day 9: Integration, Troubleshooting, and Future Trends

- System integration: combining navigation, fish finding, and communication.
- Troubleshooting electronics and sensors.
- Emerging technologies: drones, AI, and IoT in fishing.
- Cybersecurity for onboard systems.
- Industry trends and career development.
- Final assessment and practical demonstration.

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **12 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 33,300.00	R 33,300.00
1	In-House	R 43,300.00	R 43,300.00
1	On-Campus (Pretoria)	R 50,000.00	R 50,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	24 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	25 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	25 Aug 2026	On-Campus	Mauritius
14 Aug 2026	26 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	27 Aug 2026	On-Campus	Pretoria, South Africa
18 Aug 2026	28 Aug 2026	On-Campus	Abu Dhabi, UAE

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 119847) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call +27 12 004 8389 or WhatsApp +27 65 077 6310 and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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