



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

Practical Offshore Navigation And Chartwork Skills Training

Agriculture and Nature Conservation / Nature Conservation

Unit Standard 110017 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course provides participants with the practical skills and theoretical knowledge required for safe and effective offshore navigation and chartwork. It covers essential techniques for voyage planning, position fixing, and chart interpretation to ensure compliance with international maritime standards.

Category	Agriculture and Nature Conservation
Subfield	Nature Conservation
Unit Standard	110017
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to interpret nautical charts and publications for voyage planning.
- Apply techniques for accurate position fixing using terrestrial and electronic methods.
- Analyze tidal and current data to calculate safe passage routes.
- Implement collision avoidance procedures using radar and visual aids.
- Evaluate navigational hazards and adjust routes accordingly.
- Design a complete voyage plan incorporating chartwork, safety considerations, and regulatory compliance.

WHO SHOULD ATTEND

- This course is designed for maritime professionals, including deck officers, navigators, and crew members, who are involved in offshore operations and require practical navigation and chartwork skills.

COURSE OUTLINE

Day 1: Introduction to Navigation Principles and Charts

- Overview of navigation and chartwork.
- Types of nautical charts (Admiralty, SA Navy).
- Chart projections and scales.
- Chart symbols, abbreviations, and colours.
- Latitude, longitude, and the graticule.
- Measuring distance on charts using latitude scale.
- Introduction to the compass and magnetic variation.
- Plotting a simple position from given coordinates.

Day 2: Position Fixing and Dead Reckoning

- Visual bearings: compass, hand-bearing compass.
- Fixing position by cross bearings.
- Running fix and transit bearings.
- Dead reckoning: course and speed.
- Leeway and set and drift.
- Estimated position (EP) from DR and current.
- Use of parallel rulers and dividers.
- Plotting a course to steer.

Day 3: Tides, Tidal Streams, and Passage Planning

- Causes of tides: spring and neap tides.
- Tide tables: standard and secondary ports.
- Tidal height calculations using rule of twelfths.
- Tidal diamonds and stream atlas.
- Allowing for tidal streams in passage planning.
- Waypoint selection and route planning.
- Safety considerations: under-keel clearance.
- Constructing a passage plan for a coastal voyage.

Day 4: Electronic Navigation and Integration

- GPS principles: satellites, accuracy, errors.
- Waypoint entry and route creation on GPS.
- Electronic chart plotters: display and functions.
- Comparing ECDIS with paper charts.
- Limitations and errors of electronic systems.
- Cross-checking electronic fixes with visual bearings.
- Backup navigation: paper charts and traditional methods.
- Case studies: navigation incidents and lessons.

Day 5: Practical Navigation Scenarios and Assessment

- Simulated coastal passage exercise.
- Use of all navigation tools: charts, GPS, compass.
- Contingency scenarios: GPS failure, poor visibility.
- Final chartwork exercise: plotting, fixing, planning.
- Review of key concepts and Q&A;

- Assessment: practical and theoretical.
- Feedback and certification requirements.

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 **8 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa

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 110017) 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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