



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

Basic Marine Propulsion System Service Checks For Small Vessels Training

Services / Transport, Operations and Logistics

Unit Standard 114007 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to perform basic service checks on marine propulsion systems for small vessels. It focuses on safety procedures, system components, and routine maintenance to ensure operational reliability and compliance with industry standards.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	114007
Accreditation	SAQA Accredited · NQF Level 2 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify and describe the main components of a small vessel marine propulsion system.
- Apply safety procedures and risk assessments before conducting service checks.
- Perform basic inspections on propulsion system components including engine, shaft, propeller, and cooling system.
- Demonstrate correct use of hand tools and diagnostic equipment during service checks.
- Record service findings and recommend corrective actions based on manufacturer specifications.
- Evaluate system performance to determine if further maintenance or repair is required.

WHO SHOULD ATTEND

- This course is designed for marine technicians, vessel operators, and maintenance personnel who require foundational skills in servicing small vessel propulsion systems.
- It is also suitable for individuals entering the maritime industry or seeking to formalize their practical experience.

COURSE OUTLINE

Day 1: Introduction to Marine Propulsion Systems and Safety

- Overview of marine propulsion types (inboard, outboard, sterndrive)
- Key components: engine, gearbox, propeller, shaft, rudder
- Safety protocols: lockout/tagout, ventilation, PPE, fire prevention
- Introduction to cooling systems (raw water, closed loop)
- Lubrication systems: oil types, levels, and filtration
- Fuel systems: tanks, lines, filters, and water separators
- Basic hand tools and diagnostic equipment
- Engine compartment inspection: leaks, corrosion, belts, hoses

Day 2: Routine Service Checks and Diagnostics

- Pre-start checklist: fluid levels, belt tension, battery voltage, fuel system priming
- Engine oil analysis: colour, smell, contamination
- Cooling system checks: impeller condition, thermostat operation, coolant level
- Fuel system service: draining water separator, replacing filters, bleeding air
- Electrical system testing: multimeter use, alternator output, starter draw
- Propeller inspection: damage, pitch, balance, and shaft alignment
- Gearbox and transmission: oil level and condition, shift linkage adjustment
- Troubleshooting common issues: overheating, hard starting, poor performance

Day 3: Integrated Service Procedures and Practical Application

- Comprehensive service walkthrough: from pre-start to post-run
- Using manufacturer manuals and service bulletins
- Service logbooks: recording checks, findings, and actions taken
- Environmental compliance: oil spill containment, waste oil disposal, recycling
- Post-service sea trial: monitoring gauges, listening for abnormalities
- Engine room housekeeping and corrosion prevention
- Customer communication: explaining findings and recommendations
- Final assessment: practical demonstration of service check procedure

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 **6 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Dubai, 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 114007) 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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