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

Ocean and Marine Energy

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0492 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides participants with a comprehensive understanding of ocean and marine energy technologies, including wave, tidal, and offshore wind energy. It equips learners with the knowledge to assess the potential, challenges, and environmental impacts of these renewable energy sources, and to contribute to the sustainable development of marine energy projects.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0492
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply the principles of ocean and marine energy conversion to real-world scenarios.
- Analyze the technical and economic feasibility of various marine energy technologies.
- Evaluate the environmental and social impacts of ocean and marine energy projects.
- Design a basic marine energy system layout for a specified location.
- Implement regulatory and safety standards in marine energy project development.
- Demonstrate an understanding of the role of marine energy in the global energy mix.

WHO SHOULD ATTEND

- This course is ideal for professionals in the energy sector, environmental consultants, project developers, policy makers, and individuals interested in renewable energy technologies.
- It is also suitable for engineers and technicians seeking to expand their expertise into marine energy systems.

COURSE OUTLINE

Day 1: **Foundations of Ocean and Marine Energy**

- Introduction to ocean and marine energy: definitions, resource potential, and global status.
- Overview of South African marine energy resources and policy framework.
- Tidal energy: tidal range and tidal stream technologies.
- Wave energy: wave characteristics and conversion devices.
- Ocean Thermal Energy Conversion (OTEC): principles and potential.
- Salinity gradient energy: osmotic power concepts.
- Environmental impacts and mitigation measures.
- Case studies of existing ocean energy projects.

Day 2: **Technology, Integration, and Project Development**

- Detailed technology review: components, operation, and maintenance.
- Grid integration: challenges, energy storage, and hybrid systems.
- Economic analysis: capital costs, levelized cost of energy, and financing.
- Regulatory and legal frameworks in South Africa (e.g., MARINE, MPRDA).
- Environmental impact assessment and monitoring.
- Project lifecycle: from resource assessment to decommissioning.
- Emerging trends and innovations in ocean energy.
- Group exercise: Feasibility study for a hypothetical site.

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 **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	**R 11,900.00**
1	In-House	R 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Lagos, Nigeria
02 Dec 2026	03 Dec 2026	On-Campus	Durban, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	08 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	08 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	08 Dec 2026	On-Campus	Cape Town, South Africa

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

HOW TO GET A QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0492) and click **Get A Quotation**. 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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