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

Subsea Production Systems

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0453 · NQF Level 5 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to understand and apply the principles of subsea production systems in the oil and gas industry. It covers the design, operation, and maintenance of subsea equipment, emphasizing safety, environmental stewardship, and regulatory compliance. By the end, participants will be able to contribute effectively to subsea projects and operations.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0453
Accreditation	SAQA Accredited · NQF Level 5 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply the fundamental principles of subsea production systems, including wellheads, trees, manifolds, and flowlines.
- Analyze the operational and environmental risks associated with subsea production and implement appropriate mitigation strategies.
- Evaluate the performance of subsea production equipment and identify opportunities for optimization.
- Design a safe and efficient subsea production system layout, considering flow assurance, intervention, and decommissioning.
- Implement maintenance and inspection programs that ensure the integrity and reliability of subsea assets.
- Demonstrate compliance with relevant South African and international regulations, standards, and best practices.

WHO SHOULD ATTEND

- This course is designed for engineers, technicians, and operations personnel involved in the design, installation, operation, or maintenance of subsea production systems.
- It is also suitable for project managers and health, safety, and environment (HSE) professionals seeking a comprehensive understanding of subsea technologies.

COURSE OUTLINE

Day 1: **Introduction to Subsea Production Systems**

- Overview of offshore oil and gas industry
- Subsea production system components (wellheads, trees, manifolds, etc.
- Subsea field architecture (satellite, cluster, daisy chain
- Subsea control systems basics
- Safety and environmental considerations
- Introduction to subsea standards and regulations

Day 2: **Subsea Equipment and Operation**

- Subsea trees: types, components, and functions
- Manifolds and jumpers: design and operation
- Subsea control systems: hydraulic, electric, and electro-hydraulic
- Installation and intervention methods
- Flow assurance: hydrates, wax, and slugging
- Subsea inspection, maintenance, and repair (IMR

Day 3: **Advanced Applications and Integration**

- Subsea processing: separation, boosting, and compression
- Subsea power distribution and umbilicals
- Integration with host platforms and onshore facilities
- Risk assessment and reliability engineering
- Emerging technologies and digitalization
- Decommissioning and environmental considerations

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 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 13,900.00	**R 13,900.00**
1	In-House	R 18,700.00	**R 18,700.00**
1	On-Campus (Pretoria)	R 20,800.00	**R 20,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	03 Dec 2026	On-Campus	Shenzhen, China
01 Dec 2026	03 Dec 2026	On-Campus	Cape Town, South Africa
02 Dec 2026	04 Dec 2026	On-Campus	Durban, South Africa
02 Dec 2026	04 Dec 2026	On-Campus	Lagos, Nigeria
07 Dec 2026	09 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	09 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	09 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	09 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-0453) 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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