

**DRILLING, WELLS AND RESERVOIR ENGINEERING**

Deepwater Drilling Design and Operations

5 day course

Classroom, online or in-house

Course overview

In two thousand metres of water the rig is held on station by thrusters, the BOP sits on the seabed and the margin between pore and fracture pressure in the shallow section can be almost nothing. Delegates follow a deepwater well from the mudline down: conductor jetting, shallow water flow and shallow gas hazards, riserless drilling and pump and dump, then running and landing the subsea wellhead and BOP. Marine riser analysis, dynamic positioning and drift off limits, emergency disconnect sequences and metocean planning are covered, including the current and swell conditions met off the West and East African margins. Riser margin, gas in the riser, hydrates and cold seabed effects on fluids and cement complete the picture. Delegates leave able to plan and review floating rig operations and their marine interfaces.

What you will learn

- Plan conductor jetting and structural casing installation
- Assess shallow water flow and shallow gas hazards in the top hole
- Describe riserless drilling and pump and dump practice
- Explain subsea wellhead, BOP and control system architecture
- Evaluate marine riser loads and operating envelopes
- Apply dynamic positioning limits and emergency disconnect planning
- Manage riser margin, gas in riser and hydrate risk
- Adjust fluid and cement design for cold seabed temperatures

Who should attend

- Drilling engineers on deepwater projects
- Subsea and wellhead engineers
- Offshore installation managers and toolpushers
- Drilling superintendents on floating rigs
- Marine and DP personnel interfacing with drilling

Course outline

- 01 Deepwater environment and floating rig types
- 02 Conductor jetting and top hole design
- 03 Shallow hazards and riserless drilling
- 04 Subsea wellheads and BOP stacks
- 05 Marine riser analysis
- 06 Dynamic positioning and emergency disconnect
- 07 Riser margin and gas in riser
- 08 Hydrates and cold seabed effects
- 09 Deepwater operations planning

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Cape Town, South Africa	Classroom	R19,950
9 to 13 November 2026	Kampala, Uganda	Classroom	USD 1,325
23 to 27 November 2026	Online	Online	R8,500
4 to 8 January 2027	Nairobi, Kenya	Classroom	USD 1,325

Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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