



# Subsea Engineer Programme (SEP)

## Training by proven technical experts

The Subsea Engineer Programme has been developed to support all members of the subsea engineer team to improve their understanding, knowledge and competency skills related to maintenance, troubleshooting, compliance and operation of subsea blow out preventers and related well control equipment.

## Who should attend?

- The SEP has been structured to meet the attendee's own competence levels, years of experience and current position within the subsea team.
- We also recognise that the SEP should complement other training being received from Original Equipment Manufacturers (OEMs) and in-house development initiatives for Subsea Engineers.
- Attendees can join at Introductory, Intermediate or Advanced level as illustrated in the below matrix, depending on their position and years of experience.

## Structure

The SEP is based on the Introductory, Intermediate and Advanced levels, more specifically:

- Each module takes 5 days
- Practical assignments are integrated within Introductory to enable attendees to develop an understanding of systems, operations and procedures

## Advantages of an assignment-based assessment

- Gain better understanding of the operations and systems onboard the rig
- Gain further knowledge in the methods of planning and execution of maintenance and repair tasks
- Develop report writing skills and analysis

**Our knowledge. Your knowledge.**

During the course of the SEP, attendees will gain or hone key skills including how to:

- Plan for routine operations
- Perform troubleshooting and fault correction of the BOP and control system
- Plan and carry out maintenance
- Plan and carry out repairs
- Perform several sets of integral calculations within well control equipment operations

**Introductory**

The Introductory level consists of three modules, where attendees will learn how the BOP and well control systems are designed, functioned, maintained and operated on an offshore drilling rig.

- **Module 1:** Introduction to BOP and well control equipment
- **Module 2:** Maintenance of BOP and well control equipment
- **Module 3:** Troubleshooting & Non-Productive Time (NPT) prevention

Topics include the BOP, control systems, choke & kill manifold, marine riser and tensioning systems. We recommend Subsea Engineers who have 0 – 2 years’ experience attend the introductory level.

**Intermediate**

The Intermediate level consists of one module, where attendees will learn about management aspects of a subsea department including end of well planning, budget preparation and critical spares management. The trainer will also introduce human factors that influence procedural discipline and the concept of quality management. The objective is to prepare the attendees for future promotion within the subsea department by introducing new concepts of management and procedural discipline. We recommend Subsea Engineers who have more than 2 years’ experience attend the intermediate level.

**Advanced**

The advanced level consists of one module aimed at Subsea Supervisors and Subsea Superintendents who have many years of experience and are seeking continued professional development in their role. Attendees be able to discuss their experiences of managing a subsea department and look at effective strategies of how to improve reliability and availability of the BOP and well control equipment, including managing and mentoring a team. The trainer will also discuss the role of data, real time monitoring and use of artificial intelligence.

Module	Topics	0 – 2 years’ experience	2+ years’ experience	5+ years’ experience
Introductory	Introduction to BOP and well control equipment	✓		
	Maintenance of BOP and well control equipment	✓	✓	
	Troubleshooting & Non-Productive Time	✓	✓	
Intermediate	EOW planning, budgeting, procedural discipline		✓	✓
Advanced	Managing a subsea department, maintenance planning, asset management			✓