The overview of Subsea Isolations and Intervention course provides all newcomers to the industry with an understanding of the offshore installations, subsea production facilities and onshore support requirements which ensure that the industry can function as a cost effective and viable business. This course helps learners to understand the use of the Production Control system.

Those going offshore for the first time will gain a good understanding of offshore systems, functions and capabilities and the various systems monitoring and controlling topside and subsea equipment. Staff based onshore will have an appreciation of offshore operations and the associated challenges, as well as an understanding of the equipment essential to produce process and maintain our need for oil and gas.

The material covered in this course is instructor led, including interactive classroom activities.

- Control systems
- Equipment
- Operations
- MCS interfaces
- MCS operations
- Control fluids
- Intervention
- Future technologies
Overview of Subsea Isolations and Intervention

Training Course Objective
This course is aimed at any new start to the industry, onshore and offshore, including engineers, technicians, supervisors, graduates and apprentices. This course is designed to give a clear understanding to learners of the basic components of the offshore oil and gas industry and provide an opportunity for all participants, both technical and non-technical, to have the basics explained in a clear and concise format.

The material covered in this course is instructor led, including interactive classroom activities.

Course topics and activities include:
- **Introduction**: An overview of what a production control system does, and the principles of operation of subsea control systems.
- **Types of control systems**: Detailing production and workover/intervention control systems, the advantages and disadvantages of each system and understanding the interconnection and operation of the major components of the subsea control system.
- **Typical equipment**: Understanding the operation of the major items of equipment including master control station, electrical power unit, hydraulic power unit, topside and subsea umbilical terminations, and subsea control modules (xtree, manifold etc.).
- **Systems operations**: Identifying how to demonstrate a practical familiarity with the master control station computer (MCS) and all relevant facilities including communications, electrics, hydraulics and umbilicals and sensors.
- **MCS interfaces and mimics**: Detailing typical MCS/DCS, security, logging on and off, navigation and mimic view and icons and buttons.
- **MCS operations**: Covering well production, valve and choke operation, alarms, ESD, trending, functionality and options.
- **Subsea control fluids**: Understanding the importance of the hydraulic control fluid, as well as covering the control fluid as a component of the system, control fluid types and uses and environmental impact.
- **Controls intervention**: Including faultfind to major unit level, isolating and removal of subsea components, and well completion.
- **Future technologies**: Covering technology drivers, deepwater, distance and separation and boosting.

Outcome
Upon completion of this course, the learner will possess a sound knowledge of the preparation required for subsea isolations and intervention.

Delivery and Duration
This classroom course has a two day duration.

Customisation
Our trained and certified instructors are experienced in working in environments where H₂S is present, and they are all qualified assessors, so as to ensure that the learner receives the very best training possible.

Pre-requisites
There are no pre-requisites for this course.