The Introduction to Subsea Well Production Control Systems course details a range of topics including system types, typical equipment, operator interfaces, control fluids, control interfaces and a look at future technologies. This course is aimed at any new start to the oil, gas and subsea industries, onshore and offshore, including engineers, technicians, supervisors, graduates and apprentices.

This course is designed to provide an understanding to learners of the basic components of the offshore oil and gas industry and to give 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.

- Control Systems
- Equipment
- Operations
- Interfaces
- Intervention
- Future technologies

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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.

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Course topics and activities include:

- **Introduction**: An overview of what a production control system does.
- **Types of control systems**: Discussing the advantages and disadvantages of different types of system.
- **Typical equipment**: Covering master control station, electrical power unit, hydraulic power unit, topside and subsea umbilical terminations and subsea control modules (xtree, manifold etc.).
- **Systems operations**: Covering communications, electrics, hydraulics, umbilicals and sensors.
- **Operator interfaces**: Covering master control station, functionality and options.
- **Subsea control fluids**: Detailing the control fluid as a component of the system, control fluid types and uses and environmental impact.
- **Controls intervention**: Including 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 basics of subsea control systems.

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

Customisation
This course can be customised to reflect any company’s specific operations.

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