

## Wellhead & Blowout Preventers

3.00 days

FOR/WHEADE

### Overview

#### AUDIENCE

Engineers, technicians interested in well control.

#### PURPOSE

This course provides thorough information on wellhead, BOP stack characteristics and well control equipment.

#### LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:  
choose the equipment (wellhead, BOP, ancillary equipment) to design a well,  
detect operating problems,  
check the equipment used.

#### PREREQUISITE

No prerequisites for this course.

#### WAYS AND MEANS

Videos and animations showing how equipment works.

### Agenda

#### ONSHORE WELLHEAD & BLOWOUT PREVENTERS

1.50 d

Onshore wellhead:  
Functions, principles and technology.  
Setting procedure.  
Evolution of the wellhead according to drilling phase.  
Blowout preventers:  
Function and different types.  
Characteristics and technology.

#### AUXILIARY EQUIPMENT

1.00 d

Closing and accumulation hydraulic unit.  
Choke manifold, chokes, valves...  
Mud gas separator.

#### SUBSEA EQUIPMENT

0.50 d

Wellhead, BOPs.  
Risers.  
Subsea BOP closing system.  
API rules.  
Exercises on subsea BOP closing system sizing.