

**COURSE TITLE: DRILLING TECHNOLOGIES (CODE 3.1)**

**Location:** *At Client training facilities or external venues*

**Duration:** *5 days*

**Language:** *English (other languages upon request)*

**Course description:** *The course provides a complete and detailed description of the workflow involved in the drilling of oil and gas wells.*

*The course will cover the well design, including planning and engineering, and it will present all the aspects related to drilling equipment (drilling rigs, bits, casing, and rig equipment) and operations. Well casing and cementing operations will be also included.*

*Well control concepts, equipment and procedures are integral part of the course, along with directional drilling and deviation control equipment and its operations.*

**Audience:** *Petroleum engineers and geoscientists who want to well understand drilling operations theories, practices and procedures.*

**Course contents:** *Introduction to rotary drilling*

*Well planning*

*Drilling rigs*

*Drilling equipment and tools: rig systems & equipment, drilling string*

*Drilling fluids: types and uses*

*Casing design, casing job and cementing operations*

*Well control: equipment, methods and procedures*

*Directional drilling technologies and deviation control*

*Hole problems: stuck pipe, hole cleaning - issues and solutions*