

Applied Drilling Geomechanics

Course Overview

- The outline of the comprehensive programme is:
- Introduction to rock mechanics and rock mechanics testing
- Pore pressure and in-situ stresses, and construction of 1D geomechanical model
- Wellbore geomechanics including mechanical wellbore stability and fault re-activation, thermal effects and drilling through shales
- Wellbore strengthening for drilling through depletion reservoirs
- Operational aspects of wellbore stability

Course Objectives

Participants' acquisition of improved knowledge competency at mid-level and above in Drilling Geomechanics, and the practical application of acquired knowledge in real-world scenarios via latest technology case studies. The key aim is to promote knowledge transfer on the advanced technical subject with relevancy in role-specific skills development and transformative impact of geomechanics on successful drilling in reservoirs, shales and depleted reservoirs.

Day 1

- Geomechanics in Oil & Gas Industry
- Introduction to Rock Mechanics
- Rock Mechanics Testing
- Pore Pressure and Fracture Gradient (Part 1)

Day 2

- Pore Pressure and Fracture Gradient (Part 2)
- Pore Pressure (Major Exercise)
- In-situ Stresses
- 1D Geomechanical Model

Day 3

- 1D Geomechanical Model (Major Exercise)
- Wellbore Geomechanics and Wellbore Stability
- Drilling through Shales

Day 4

- Wellbore Geomechanics and Wellbore Stability (Major Exercise)
- Wellbore Strengthening
- Operational Aspects of Wellbore Stability



Progress Tracking

Full course administration and participant tracking are included. Weekly progress updates provide clear visibility into participation, engagement, and overall progress.

Queries

Connect with enquiries@apes-energyevolution.com