TECHNICAL
EDUCATION
ACADEMY

School of Engineering

COURSE PROGRAMME

000112

WELL008 - Well Completion and Servicing

This training course provides in-depth information on the impact of workovers and completion design in maximizing field production and increasing recoverable reserves.



Learn from the Best in the Business!

Course overview

Intermediate level

Why take this course

This training course provides in-depth information on the impact of workovers and completion design in maximizing field production and increasing recoverable reserves. It also emphasizes the importance of a team concept as a determining factor in operations success. Participants will gain a greater understanding of how to apply advanced technologies to designing and executing workover jobs, and how to select the best operations method to perform the task in the safest, most efficient manner

Who it is for and how it helps

Drilling Manager, Drilling/Well Engineers, Completion and Well Service Engineers, Drilling Supervisors, Rig Manager, Tool pusher, Drillers, Petroleum Engineers, Production Technologists, Production Operators and Maintenance Supervisors.

What you will learn

- Recognize the connection between reservoir and completion
- Distinguish between the main configurations and techniques of completion
- Review advantages and issues of various techniques
- Communicate efficiently with Oil & Gas service companies and equipment suppliers

Curriculum

Modules 01–05

01 Fundamentals of Reservoir Engineering

- Introduction: area concerned by completion, main steps.
- Geological trap, rock properties.
- Fluid behavior.
- Reservoir characterization, well testing.
- Recovery mechanisms.

02 Fundamentals of Drilling

- Drilling and casing program, casing cementing.
- Wellhead and safety equipment (BOP).

03 Introduction to Completion

- Concerned area, main steps (for memory).
- Main factors influencing completion design.
- Completion configurations: requirement, main configurations.

04 Well Productivity and Reservoir-Wellbore Interface

- Inflow and outflow performance.
- Need for artificial lift.
- Drilling (and casing) of the pay zone: specific aspects.
- Problems linked to restoring the cement job.
- Perforating: principle, main methods.

05 Equipment of Naturally Flowing Wells

- Functions to be carried out and corresponding pieces of equipment, main configurations of production string(s).
- Technology and handling of main pieces of equipment: production well head, tubing, packer, downhole devices, subsurface safety valve.
- Running in hole procedure.
- Present trends: full bore, intelligent completion.

Curriculum

Modules 06–08

06 Reservoir-Wellbore Interface

- Stimulation: acidizing, hydraulic fracturing.
- Sand control.
- Horizontal drain specificity: interest, reservoir-wellbore interface.

07 Artificial Lift

- Sucker rod pumping and electrical submersible pumping: principle, main components, factor to consider for design, operating problems.
- Continuous gas lift: principle, factor to consider for design, unloading, operating problems.
- Field of application.

08 Well Servicing and Workover

- Main jobs: measurement, maintenance, workover.
- Operations on live wells: wireline, coiled tubing, snubbing.
- Operations on killed wells: workover.

Joining the programme

Contact the Academy and quote course code 000112 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

Learn from the Best in the Business!