



GE019: Basic Petroleum Engineering Practices





Training Description:

This course is a basic introduction to most aspects of the Petroleum Engineering discipline, which includes reservoir, production and drilling engineering as well as related topics. This course lays the groundwork for further specialized training in advanced courses for oil company and service company personnel. The course focuses on the field and application approach and includes classroom exercises, fundamental engineering problems and basic field exercises. Basic Petroleum Engineering Practices will set the foundation for technical professionals with regards to technology and its engineering applications. The course starts out with a brief introduction of the history and current state of the oil and gas industry. Next, reservoir fluids, petroleum geology, and petroleum reservoirs are discussed. Then, various facets of exploration technology, drilling engineering and operations, well completion technology and production technology are covered before finishing with surface processing of produced fluids.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Learn the basic petroleum geology
- ✓ Learn the reservoir fluid and rock properties
- ✓ Know the fundamentals of reservoir fluid flow
- ✓ Familiarize with the oil and gas reservoir classification, definition, delineation, and development
- ✓ Gain knowledge with the unconventional resources
- ✓ Know the fundamentals of drilling, well completion, and production operations
- ✓ Know the basics of casing design and primary cementing
- ✓ Know the primary and enhanced recovery mechanisms
- ✓ Familiarize with the surface operations

Training Designed for:

This course is intended for all Engineers, Engineering Trainees, Technical Managers and Assistants, Technicians, Geologists, Geophysicists, Chemists, Physicists, Service Company Personnel, Sales Representatives, and Data Processing Personnel.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Reservoir fluid properties
- ❖ Petroleum geology

DAY TWO:

- ❖ Reservoir properties and evaluation
- ❖ Unconventional resources

DAY THREE:

- ❖ Exploration technology
- ❖ Drilling engineering

DAY FOUR:

- ❖ Well completion, stimulation, and workover





- ❖ Well testing and formation damage
- ❖ Production operations

DAY FIVE:

- ❖ Recovery methods
- ❖ Surface processing
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

- 07:45 - 08:00 Morning Coffee / Tea
- 08:00 - 10:00 First Session
- 10:00 - 10:20 Recess (Coffee/Tea/Snacks)
- 10:20 - 12:20 Second Session
- 12:20 - 13:30 Recess (Prayer Break & Lunch)
- 13:30 - 15:00 Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department

