



Unconventional Reservoir Properties Fundamentals

MODULE

About the Skill Module

This skill module is designed for professional engineers and geoscientists with little experience in unconventional reservoirs who wish to quickly learn the key elements of these reservoirs and the technologies to exploit them. Focused on shale (tight) oil, tight gas, and coalbed methane this course begins with an introduction to unconvensionals then reviews geoscience elements from the previous modules and demonstrates their use in unconventional reservoir engineering. Fluid sampling for laboratory tests and fluid property correlations are presented. Drilling and completion of wells in unconventional reservoirs are considered, with a focus on horizontal wells. Stimulation fluid systems and proppants are briefly discussed. A key test for stimulation design, diagnostic fracture injection tests (DFIT's) is presented along with classic test signatures.

Attendees should leave this course with a better understanding of the basic physics of unconventional reservoirs and the fluids they hold as well as the basics of placing wells in those reservoirs to drain those fluids.

Target Audience

Subsurface technical professionals, geoscientists, completion engineers, reservoir engineers, petroleum engineers, and drilling engineers

You Will Learn

Participants will learn how to:

- Manage the difference between unconventional and conventional fluids
- Develop relationships between rock properties and well performance
- Calculate flow rates under conditions in which fluid models break down
- Use simulated rock volumes and discrete fracture networks

Product Details

Categories: [Upstream](#)

Disciplines: [Reservoir Engineering](#) [Unconventional Resources](#)

Levels: [Foundation](#)

Product Type: Individual Skill Module

Format: On-Demand

Duration: 6 hours (approx.)

\$795.00