



Basic Petroleum Geology – Petroleum System – Trap and Timing

MODULE

About the Skill Module

This skill module is presented in two parts, focusing on two essential processes of the Petroleum System. The first part begins by covering basic concepts of structural geology and then explains the essential process of petroleum trap formation. Both structural and stratigraphic traps are described with field examples provided. The second part explains the essential process of hydrocarbon generation and migration, emphasizing the importance of the timing of the process relative to the timing of trap formation.

Target Audience

Petroleum industry personnel in need of basic geological training, including engineering, geophysical, technical support, and administrative personnel.

You Will Learn

Participants will learn how to:

- Identify, describe, and understand the formation of key geological fold and fault structures
- Describe principle stress configurations and the implications for the orientation of fractures and faults
- Explain the concept of strike and dip for characterizing the orientation of geologic strata and structures
- Explain the difference between structural and stratigraphic trap
- Recognize uncertainties associated with fault trap
- Describe the types of structural traps associated with extensional, compressional, and strike slip tectonic settings
- Explain the meaning of timely maturation and migration and the concept of “critical moment” for a petroleum system

Product Details

Categories: Upstream

Disciplines: Geology

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 5 hours (approx.)

\$395.00