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Course Name

Basin Analysis and Petroleum Systems Modeling

Sector Name

Oil, Gas and Chemical

Document Type

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Basin Analysis and Petroleum Systems Modeling

Course Introduction

This intensive **5-day** course addresses the essential aspects of basin analysis and subsequent basin and petroleum systems modeling, from initial data input to final model output. Participants will explore the full spectrum of basin evolution from plate tectonics through to petroleum generation and migration.

A key focus will be on understanding how risks and uncertainties impact our interpretation of petroleum systems within a basin, and how these uncertainties can be quantified

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Basin Analysis and Petroleum Systems Modeling

Target Audience

Geoscientists involved in Petroleum Systems Modeling, anyone wanting to know more about the Petroleum Systems Modeling approach.

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Basin Analysis and Petroleum Systems Modeling

Learning Objectives

- ✓ Provide the basic geoscience background needed by anyone engaged in Petroleum Systems Modeling.
- ✓ Attendees will learn what kinds of questions to ask, what kind of data is needed to build models and solve particular problems and to apply geological reasoning to quantifying uncertainties

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Basin Analysis and Petroleum Systems Modeling

Course Outline

✓ DAY 01

Module 1 : Introduction to Sedimentary Basins

- ✓ Definitions
- ✓ Plate Tectonics
- ✓ Basin Forming Mechanisms
- ✓ How are basins formed?
- ✓ Where are basins formed?
- ✓ Basin Classification and Structural Analysis
- ✓ Nomenclatures
- ✓ Structural styles within sedimentary basins

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Course Outline

✓ Day 02

Module 2 :Basin Fill

- ✓ Sequence Stratigraphy
- ✓ Depositional Environments
- ✓ Geochemical Analysis
- ✓ Organic Matter in Sediments
- ✓ Source Rocks
- ✓ Geochemical Analysis for Petroleum Exploration

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Course Outline

✓ Day 03

Module 3 :Temperatures in Sedimentary Basins

- ✓ Pressure and Compaction
- ✓ Heat Flow
- ✓ Temperatures

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Course Outline

✓ Day 04

Module 4 :Petroleum Systems Modeling

- ✓ Hydrocarbon Generation
- ✓ Hydrocarbon Migration
- ✓ The Petroleum System Approach
- ✓ Uncertainty Management and Quantification

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Course Outline

✓ Day 05

Module 5: Petroleum Systems Modeling

- ✓ Hydrocarbon Generation
- ✓ Hydrocarbon Migration
- ✓ The Petroleum System Approach
- ✓ Uncertainty Management and Quantification

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 5, 2026	Oct. 9, 2026	5 days	4950.00 \$	USA , Los Angeles
Nov. 9, 2026	Nov. 13, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Jeddah
April 26, 2027	April 30, 2027	5 days	4250.00 \$	UAE , Dubai

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