

Exploration and Development of Fluvial and Shallow Marine Reservoirs

COURSE OVERVIEW

This course assumes no prior sedimentology background and systematically introduces participants in a landwards to basinwards transect through all environments of deposition where reservoir quality sands are deposited. For each environment of deposition, they are shown modern examples, outcrop analogs, core photos, well-log signatures and seismic expression. Besides presenting standard facies models, quantitative modelling equations are presented in exercises. By the end of the course, participants will be able to predict reservoir geometries, dimensions, and N:G of fluvial and paralic sedimentary systems and look for stratigraphic traps.

WHO SHOULD ATTEND?

The course is designed for geoscientists and reservoir engineers who primarily focus on fluvial and shallow marine successions, especially those involved in building or updating geomodels. Whether your task involves a simple well correlation across tidal systems, or the input of fluvial channel dimensions into a geomodel this course will benefit you in several ways.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Ability to describe and interpret sedimentary structures and trace fossils
- Creation and usage of seismic facies in deltaic successions
- Collecting input parameters for geomodeling using core data
- Identification of common environments of deposition in well logs
- Core description of marginal marine siliciclastics
- Prediction of Net: Gross distributions along depositional strike and dip

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Classification of rivers, architectural elements, prolific global fluvial reservoirs, exercise on calculating channel dimensions and geometry
- Deltaic systems: Wave, Tidal, Fluvial processes, deltas through sea-level cycles, architecture, fandelas, Gilbert-type deltas, shelf-margin deltas
- Incised Valley Systems and Tidal Systems
- Barrier Islands, Shorefaces, Spits and Washovers
- Workshop on the identification of Gross Depositional Environments in well-logs
- Exercise on description and interpretation of core facies.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded