



**Core Analysis—Principles & Applications in  
Reservoir Exploration  
EP05**



**Oil & Gas  
Consultancy Services & Technical Training Providers**

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## Core Analysis—Principles & Applications in Reservoir Exploration (EP05)

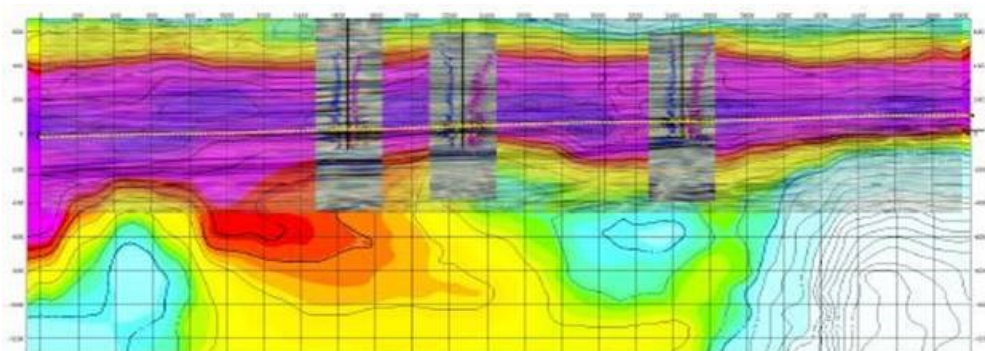
### Course Description:

This program is geared to introducing oil and gas professionals to the basics of reservoir properties, via reservoir core analysis. Participants will learn fundamental principles, properties and measurable data pertinent to ultimate reserves estimation and production.

Attendees will be fully informed on the basics and objectives of core analysis, and the applicable data measurements and calculations. They will also understand how these principles apply and are necessary for oil and gas extraction.

### Course Contents:

- Objectives of core analysis
- Coring methods and fluids
- Fluid flow terms principles and definitions
  - ◇ Porosity
  - ◇ Permeability
  - ◇ Saturation
  - ◇ Residual fluid
  - ◇ Lithofacies and Lithology
- Introduction to Permeability Studies
  - ◇ Relative permeability
  - ◇ Fluid phases and Oil and water wettability
  - ◇ Test methods
  - ◇ Application in fluid flow simulation



- Porosity and Permeability
  - ◇ Total Vs Effective Permeability
  - ◇ Relative permeability, Directional Permeability
  - ◇ Storage Capacity
- Rock mechanics
  - ◇ Compressibilities
  - ◇ Pore volume calculations
  - ◇ Elastic module
- Flow Properties
  - ◇ Darcy and Non-Darcy flow
  - ◇ Permeability profiles
  - ◇ Connate fluid saturation
  - ◇ Conductivity
  - ◇ Fluid interaction – interfacial tension
- Flow units, Hydraulic units and Carman-Kozeny equation
- Introduction to wettability and connate saturation
- Application of studies and analysis
  - ◇ Reservoir Modelling
  - ◇ Reservoir Simulation
  - ◇ Reserves Estimation

### Who Should Attend?

Geologist, Petrophysicists, Reservoir characterization Engineers

### Venue:

Please visit our website or contact us for details.

### Tuition:

£2,750+VAT

5 day program

5 easy ways to  
register or to  
make an enquiry:

1.Web

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