RESERVOIR CHARACTERIZATION RSE015

COURSE OVERVIEW

Discover the key principles and techniques of reservoir characterization in this comprehensive course. Through a multidisciplinary approach, participants will gain the skills to assess reservoirs accurately, optimize production, and maximize reserves. Learn the latest industry advancements, manage complex projects, and enhance collaboration among geologists, geophysicists, engineers, and managers. Acquire practical knowledge in defining flow units, assessing economic viability, analyzing data, and making informed decisions. Join us for this intensive five-day course to unlock your potential in reservoir characterization and drive success in hydrocarbon projects.

COURSE OBJECTIVES

By the end of this course, participant will be able to:

- Increase their understanding of reservoir characterization principles and techniques.
- Apply measurements and interpretations from their discipline to other adjacent disciplines.
- Demonstrate awareness of the uncertainties and risks involved in gathering and interpreting information from different disciplines.
- Stay updated with the latest technologies and working principles in reservoir characterization.
- Effectively manage complex projects and solve business problems efficiently.
- Work with both probabilistic and deterministic multiple working hypotheses throughout a hydrocarbon project.
- Define hydraulic flow units and assess reservoir continuity.
- Evaluate the economics of oil and gas projects across their entire life cycle.
- Conduct the integrated reservoir characterization process.
- Analyze data scale, resolution, variograms, and correlation length.
- Understand the relationships among time, rock, and flow units, seismic attributes, upscaling, and streamline simulation.
- Utilize decision trees, assess the value of information, and provide and receive feedback effectively.
- Discuss and anticipate emerging trends and the future of reservoir characterization.

WHO SHOULD ATTEND

Geologists, geophysicists, reservoir engineers, production engineers, petrophysicists, exploration and production managers, team leaders, and research scientists.

COURSE DURATION

5 Working Days

COURSE OUTLINES

Day1

- Pre course evaluation.
- Developing a business proposal for any Reservoir Characterization project
- Applying the concept of correlation length to understand reservoir continuity
- Defining hydraulic flow units in a reservoir

Day2

- Assessing the economics of oil and gas projects across their entire life cycle
- To carry out the integrated Reservoir Characterization process
- Business value drivers and selection criteria

Day3

- The scale and resolution of data
- Variograms
- Correlation length

Day4

- Time, rock, and flow units
- Seismic attributes
- Upscaling
- Streamline simulation

Day5

- Decision trees;
- Value of information
- Giving and receiving feedback
- The future of Reservoir Characterization
- Post course evaluation.