



Advanced Operations Geology: Well Placement Optimization and Well Planning

Course Introduction:

Overview of operations geology and its significance in well planning and placement.

Objectives of the training program.

Importance of optimizing well placement for resource extraction efficiency.

Course Objectives:

Upon the successful completion of this course, each participant will be able to:-

- Understand the principles of well placement and planning.
- Learn techniques for optimizing well trajectories.
- Explore geological and geophysical data integration in well planning.
- Gain skills in using software tools for well placement optimization.
- Discuss case studies and best practices in well planning.

Who Should Attend?

- ✓ Geologists and geophysicists
- ✓ Petroleum engineers
- ✓ Drilling engineers
- ✓ Industry professionals involved in well planning and operations

Course Outline:

Day 1: Introduction to Well Placement and Planning

- Overview of well placement and its significance in drilling operations
- Key factors influencing well placement decisions (geological, economic, and technical).
- Introduction to the well planning process and its stages.

Day 2: Geological Considerations in Well Planning

- Understanding subsurface geology and its impact on well placement.
- Techniques for analyzing geological data (core samples, well logs, seismic data).
- Identifying potential hazards and challenges in well placement.

Day 3: Well Trajectory Optimization

- Principles of well trajectory design and optimization.
- Tools and methodologies for optimizing well paths.

Day 4: Integration of Geophysical Data

- Importance of integrating geophysical data in well planning.
- Techniques for using seismic data and interpretation in well placement.
- Case studies demonstrating successful integration of geological and geophysical data.

Day 5: Best Practices and Case Studies

- Review of best practices in well placement and planning.
- Discussion of recent advancements in technologies and methodologies.
- Case studies of successful well placement optimization in various environments.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Fees:

To be advised as per course locations. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

