



## Advanced Hydraulic Fracturing and Formation Damage

**Course Duration** : 5 days

**Date** : 05-Aug-2024 to 09-Aug-2024

**Location** : London

### Summary:

This Advanced Hydraulic Fracturing and Formation Damage course is designed to equip participants with a comprehensive understanding of the latest techniques, technologies, and best practices in hydraulic fracturing and managing formation damage.

### Objective:

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

- Understand the key principles and advancements in hydraulic fracturing.
- Select appropriate fracturing fluids and proppants for different reservoir conditions.
- Design, execute, and optimize hydraulic fracturing operations.
- Identify, assess, and manage formation damage effectively.
- Apply advanced technologies and techniques to improve fracturing efficiency and effectiveness.
- Address environmental and regulatory concerns associated with hydraulic fracturing.

### Contents:

- **Introduction to Hydraulic Fracturing:**
  - Fundamentals and principles
  - Historical development and advancements



- **Fracturing Fluids and Proppants:**

- Types and properties of fracturing fluids
- Selection and application of proppants

- **Design and Execution of Hydraulic Fracturing:**

- Fracture design methodologies
- Execution and optimization of fracturing operations
- Real-time monitoring and adjustments

- **Formation Damage:**

- Identification and causes of formation damage
- Assessment and diagnosis techniques
- Prevention and remediation strategies

- **Advanced Technologies and Techniques:**

- Recent innovations in fracturing technology
- Case studies and field applications

- **Environmental and Regulatory Considerations:**

- Environmental impacts and mitigation measures
- Compliance with regulatory frameworks and standards