Best Practices of Enhanced Oil Recovery (EOR) Projects

Enhanced Oil Recovery (EOR): A to Z of Best Practices

09 - 13 Sep 2019, Atlanta
WHY CHOOSE THIS TRAINING COURSE?

The increasing gap between discovering giant oil fields and world oil demand creates very good opportunity for more applications of enhanced oil recovery techniques with objective to produce higher volumes of oil in mature oil fields and in new discoveries, in the recent years the major operators has envisioned and concluded as a result of experimental and reservoir simulation studies, that as sooner the recovery process is implemented the more efficient the recovery process will be. This dynamic training course teaches an integrated approach of water flooding and enhanced oil recovery (EOR). It explains the connection of each process to the reservoir characteristics and the results of success and failure cases in onshore and offshore fields covering the specifics of chemical, miscible and thermal EOR processes.

The training course is designed to provide attendants with solid understanding of different design aspects, types, screening criteria, and field application of current and advanced types of Enhanced oil Recovery (EOR) processes. This training course presents basics, applications, problems, uncertainties and field development of each EOR method. Reservoir characterization techniques required for EOR will be explained and compared. The EOR methods and applications will be covered with actual field cases worldwide. The course is designed as an interactive learning environment of lecturing, industry videos, and screening field cases.

This AZTech training course will feature:

- Rock and fluid properties for better reservoir characterization
- How to screen actual reservoir to select the suitable EOR method
- Different types, sub-types, and results of EOR field cases (chemical, miscible, and thermal)
- Required data, lab design approach, and analysis of different EOR methods
- Current industry simulators and new advancements of EOR methods

WHAT ARE THE GOALS?

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

- Describe and apply different EOR processes
- Reservoir characterization and screening actual fields for EOR methods
- How to maximize oil recovery using Mobility Ratio and Capillary Number
- Chemical EOR: polymer, alkaline-polymer, and alkaline/surfactant/polymer
- Miscible and thermal EOR techniques and new advancements in EOR techniques

WHO IS THIS TRAINING COURSE FOR?

This AZTech training course is suitable to a wide range of professionals but will greatly benefit:

- Petroleum, Production & Reservoir Engineers
- Processing engineers & other discipline engineers
- Geologists & Petro physicists
- Engineers who are new to the profession
- Other individuals who need to know about EOR technologies

HOW WILL THIS TRAINING COURSE BE PRESENTED?

This training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The course is designed as a blended environment of presentation, class exercises, field application/analysis and several industry videos showing all processes.
THE COURSE CONTENT

Day One: Different EOR Processes and Screening Criteria
- Different enhanced oil recovery (EOR) methods
- Reservoir concepts, RCAL, SCAL and fluid properties for EOR
- Screening criteria and mechanisms of different EOR methods
- How to maximize oil recovery using mobility ratio and capillary number
- Limitations, challenges, uncertainties and problems of different EOR methods

Day Two: Reservoir Fluid Properties and Reservoir Characterization
- Reservoir concepts, main rock and fluid properties for EOR
- Routine and Special Core Analysis (RCAL & SCAL)
- Five different reservoir fluids and downhole sampling tools
- Detailed reservoir fluid studies
- Different tools for downhole fluid sampling
- Reservoir characterization techniques for EOR methods

Day Three: Water flooding and Different Chemical EOR Processes
- Water flooding: design requirement, frontal displacement theory
- Classification and screening of different chemical EOR methods
- Polymer flooding: polymer types, properties, and degradation
- Alkaline/polymer (AP) and ASP flooding: process and limitations
- Three actual field results: Daqing (China), Kentucky (USA), Norne Field (Norway)

Day Four: Miscible and Immiscible EOR Processes
- Miscible gas EOR: CO2 and Nitrogen injection methods
- Determination of minimum miscibility pressure (MMP)
- Carbon dioxide miscible and immiscible flooding processes
- Carbon dioxide field selection and screening application
- Current industry simulators for CO2 process

Day Five: Thermal and the EOR Processes
- Thermal processes; cyclic and continuous steam injection
- Industry simulators for steam EOR methods
- Steam-Assisted-Gravity-Drainage (SAGD)
- In-situ combustion method: wet and dry applications
- Toe-to-Heel Air Injection (THAI) and CAPRI processes
- Microbial EOR, Enzyme EOR, and Low Salinity Water (LSW)

THE CERTIFICATE
AZTech Certificate of Completion for delegates who attend and complete the course.
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<thead>
<tr>
<th>DATE</th>
<th>VENUE</th>
<th>FEES(USD)</th>
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<tbody>
<tr>
<td>09 - 13 Sep 2019</td>
<td>Atlanta - USA</td>
<td>$6,950</td>
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**REGISTER NOW**

This fee is inclusive of Documentation, Lunch and Refreshments may be subjected to 5% VAT

Complete & send by fax/mail to address given below. Please use BLOCK CAPITALS.

**REGISTRATION DETAILS**

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**CERTIFICATION**

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**4 WAYS TO REGISTER**

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