

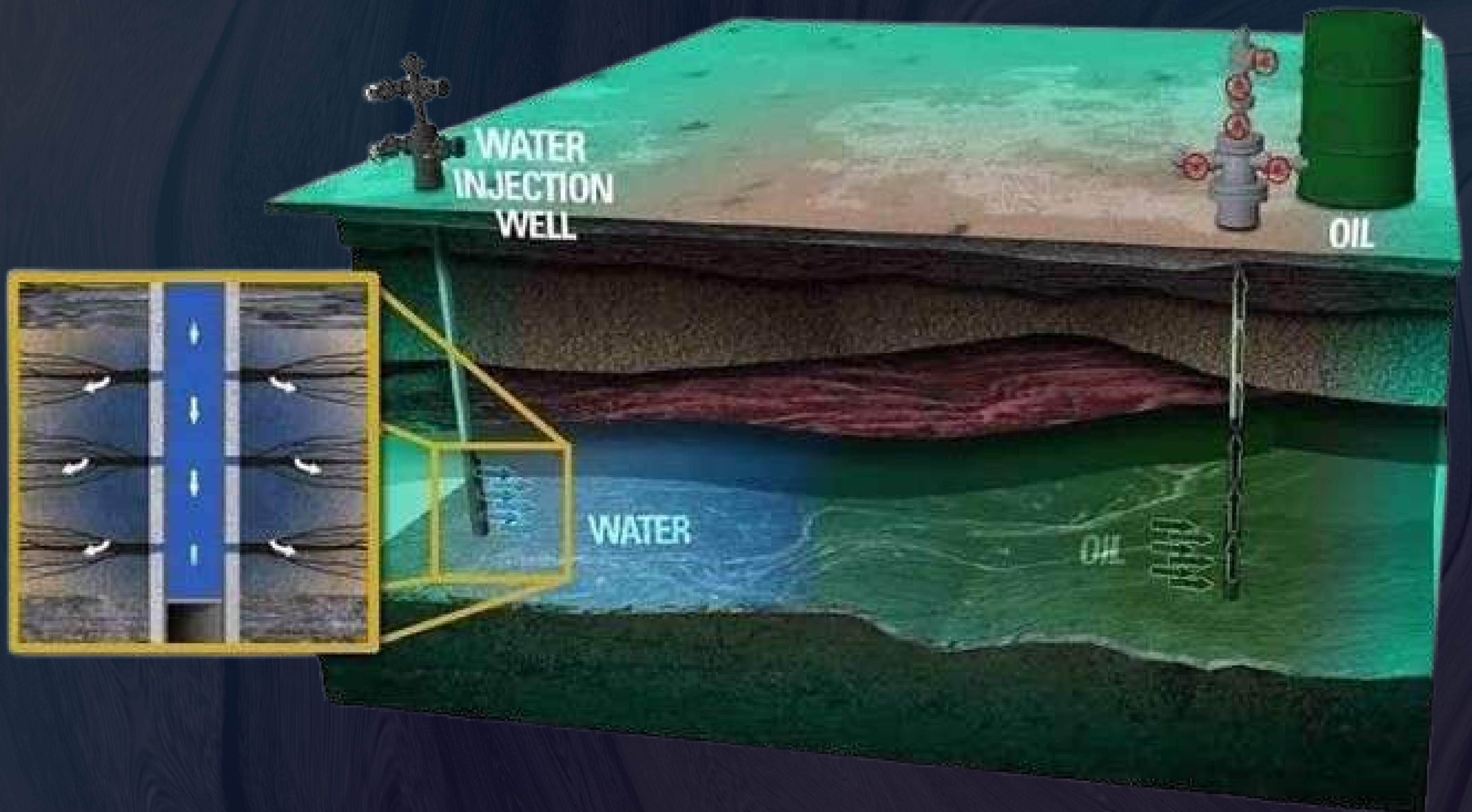


# PEA

PETROLEUM ENGINEERS ASSOCIATION



# 30 HOURS OF ONLINE PRACTICAL TRAINING ON ADVANCED WATERFLOODING PERFORMANCE ANALYSIS USING MICROSOFT EXCEL



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## COURSE OVERVIEW

Water-flooding has been proven as the simplest and the lowest cost approach to maintaining production and increasing oil recovery from an oil reservoir. However, these benefits may fall short of expectations unless the time-tested concepts and practices are clearly understood and judiciously implemented. These concepts and practices aim at process optimization, reducing production cost while minimizing waste and maximizing oil recovery and income. Water flooding includes surface and subsurface challenges and activities. These challenges should be well studied to have successful water flooding projects.



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## AGENDA

### DAY-1

Introduction, Waterflood Objectives, Waterflood Patterns and Components of a Waterflood Project.

Excel Based Problems – Session-1

### DAY-2

Importance of Reservoir Description in Design and Operation of Waterflood. Design Considerations in a Waterflood Project

Excel Based Problems – Session-2

### DAY-3

Fundamental Rock and Fluid Properties impacting Waterflood

Excel Based Problems – Session-3

### DAY-4

Reservoir Characterization and Heterogeneity. Floodability, Mobility Ratio, Areal, and Vertical Sweep Efficiency. Impact of fracture on sweep efficiency.

Excel Based Problems – Session-4

### DAY-5

Microscopic Displacement efficiency and its calculation  
– Buckley Leverett Equation

Excel Based Problems – Session-5



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## DAY-6

Buckley Leverett Equation, Impact of Throughput rate, Decline Curve Analysis in Waterflooded Reservoir.

Excel Based Problems - Session-6

## DAY-7

Decline Curve Analysis in Waterflooded Reservoir.

Produced Water Management

Excel Based Problems - Session-7

## DAY-8

Waterflood Surveillance and Monitoring

Excel Based Problems - Session-8

## DAY-9

An introduction to streamline simulation as a Waterflood Management Tool, Impact of Water Injection Deferment

## DAY-10

Why Waterfloods Fail, Key Performance Indicators (KPI) and Waterflood Operating Envelope with Case Studies

Final Waterflood Quiz



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## TARGET AUDIENCE:

All engineers and technical staff (Superintendents, Supervisors & Foremen) whose responsibilities include the safe and cost-effective operation of water injection systems.

Management will also benefit by increasing their awareness of the cost-effective use of treatment chemicals and by developing their skills in the analysis of water quality data.

Further, this seminar is suitable for Corrosion Personnel, W.I. Personnel, Lab Personnel, Chemists and Chemical Engineers.

## LEARNING OBJECTIVES:

- Master advanced waterflooding performance analysis techniques.
- Gain proficiency in utilizing Microsoft Excel for data analysis in waterflooding projects.
- Understand key principles and methodologies for optimizing waterflooding operations.
- Learn to interpret and analyze data to enhance reservoir management strategies.
- Acquire practical skills for evaluating and improving reservoir performance through waterflooding.



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## BENEFITS OF JOINING:

- Enhance your expertise: Acquire advanced skills in waterflooding performance analysis.
- Practical learning: Gain hands-on experience using Microsoft Excel for data analysis.
- Career advancement: Boost your credentials and career prospects in the oil and gas industry.
- Stay ahead of the curve: Stay updated with the latest techniques and methodologies in reservoir management.
- Networking opportunities: Connect with industry professionals and expand your professional network.
- Flexibility: Attend online sessions conveniently from anywhere with an internet connection.
- Interactive sessions: Engage in interactive discussions and exercises for a comprehensive learning experience.



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## INSTRUCTOR BIOGRAPHY



**Biswajit Choudhuri**

Biswajit Choudhuri is a Petroleum Engineer with about four decades of experience in major E&P companies including NOC and IOC. He was a technical authority in Reservoir Engineering in Petroleum Development Oman (PDO) and Shell International Exploration and production. He has delivered many training programs in various reservoir engineering topics. He was the Reservoir Engineering Discipline Coach in PDO where he was instrumental in developing and executing the Graduate Development Program. He has delivered guest lectures in Reservoir Engineering in IIT(ISM), Dhanbad and IIT (Madras).



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