

# BASIC RESERVOIR ENGINEERING

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**Contact Us On:**

**Tel: +971 7 2042072 |**

**Email: [training@maestrouae.net](mailto:training@maestrouae.net)**

**Website: [www.maestrouae.net](http://www.maestrouae.net)**



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## **TRAINING TITLE**

### **BASIC RESERVOIR ENGINEERING**

## **VENUE**

**Dubai, UAE**

## **DURATION**

**5 Days**

## **DATES**

**28 February - 4 March 2021**

## **PRICE**

**US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.**

## **TRAINING INTRODUCTION**

Basic Reservoir Engineering is a course designed to help the participants develop a more complete understanding of the characteristics of oil and gas reservoirs, from fluid and rock characteristics through reservoir definition, delineation, classification, development, and production. Data collection, integration, and application directed toward maximizing recovery and Net Present Value are stressed. Basic reservoir engineering equations are introduced with emphasis directed to parameter significance and an understanding of the results. For nearly 30 years this has been one of our most popular and successful courses. The Basic Reservoir Engineering course includes class exercises designed to be solved by hand with a calculator. For those who prefer to use spreadsheets to do the calculations, participants are welcome to bring their own laptop computers.

## **TRAINING OBJECTIVES**

- How to collect and analyze the data needed for reservoir engineering tasks
- The fundamentals of fluid flow in porous media
- How reservoirs are characterized by fluid type and drive mechanisms
- The basis for reservoir fluid distribution
- About oil and gas well performance and pressure buildup analysis
- About oil displacement and optimizing reservoir performance
- The basics of enhanced oil recovery
- How oil and gas in place can be estimated and recovery predicted

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- To understand work practices which allow success in troubleshooting and

### **TRAINING AUDIENCE**

Geologists, geophysicists, engineers, engineering trainees, technical managers, technical assistants, technicians, chemists, physicists, technical supervisors, service company personnel, sales representatives, data processing personnel, and support staff working with reservoir engineers and wanting to understand the process of reservoir definition, development, and production, or engineers newly placed in a reservoir engineering position that want a first reservoir engineering course at the Basic level.

### **TRAINING OUTLINE**

- Reservoir fluid properties
- Coring practices and reservoir rock properties
- Fundamentals of fluid flow
- Reservoir fluid distribution
- Reservoir classification
- Reservoir drive mechanisms
- Oil and gas well performance, including inflow and outflow concepts
- Pressure buildup analysis
- Oil displacement concepts
- Estimation of oil-in-place and gas-in-place
- Recovery techniques

### **TRAINING CERTIFICATE**

**MAESTRO CONSULTANTS** Certificate of Completion for delegates who attend and complete the training course

### **METHODOLOGY**

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of “real life” issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.