



**MAESTRO**  
CONSULTANTS

# **ADVANCED WELL TESTING**

## **COURSE OUTLINE 2023**

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**TRAINING TITLE**

ADVANCED WELL TESTING

**VENUE**

Dubai, UAE

**DURATION**

5 Days

**DATES**

09 - 13 October 2023

**PRICE**

US\$5,250 per attendee including training material/handouts, morning/afternoon coffee breaks, and Lunch buffet.

**TRAINING INTRODUCTION**

The course will cover the use of well pressures and flow rates for the evaluation of a reservoir surrounding the tested well. Course will provide participants with a comprehensive theoretical and practical knowledge of well test analysis techniques. Emphasis will be placed on the practical aspects of well testing - a number of relevant examples will be presented. The use of analysis results to assist in decision making related to reservoir development and well completion will be illustrated through real-life case histories. Attendees are encouraged to bring well tests used in recent projects for discussion.

**TRAINING OBJECTIVES**

1. The participants should learn the basic aspects of various types of fluid flow in the gas/oil reservoir.
2. They should understand reservoir behavior and predict its performance under different conditions of production control.
3. They should understand how to determine the ability of a formation to deliver reservoir fluids.

## **TRAINING AUDIENCE**

Reservoir and Production Engineers

## **TRAINING OUTLINE**

Principles of Fluid Flow for Steady State, Semi-steady State & Non steady-state Conditions. Diffusivity Equation Derivation

Pressure Transient Tests Analysis, Pressure Draw-down Tests, Pressure Buildup test, Steady State Flow Tests (Indicator Diagram) and Gas Well Tests.

Constant Terminal Rate Solution, RLT etc. for oil and gas both.

Multirate testing, Average Reservoir Pressure, Type curves & its uses.

Well Test Analysis:

1. Principles of Fluid Flow for steady state, semi steady state & non steady state conditions.
2. Steady State Flow Tests (Indicator Diagram) and Gas Well Tests.
3. Diffusivity Equation Derivation & constant Terminal Rate Solution.
4. Pressure Transient Tests: Analysis and Pressure Draw-down Tests, Pressure build up test, RLT etc. for oil and gas both.
5. Treatments of Pressure build up and Pressure drawdown in Horizontal wells. Pressure fall-off test in injection wells.
6. Multirate testing, Average Reservoir Pressure, Type curves & its uses.

Perforation Operations:

1. Perforating Oil & Gas Wells - Conventional and Unconventional techniques viz. through tubing and tubing conveyed underbalanced perforating techniques.
2. Type, size and orientation of perforation holes.
3. Well activation, use of compressed air & liquid Nitrogen.

## **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.