BOOST
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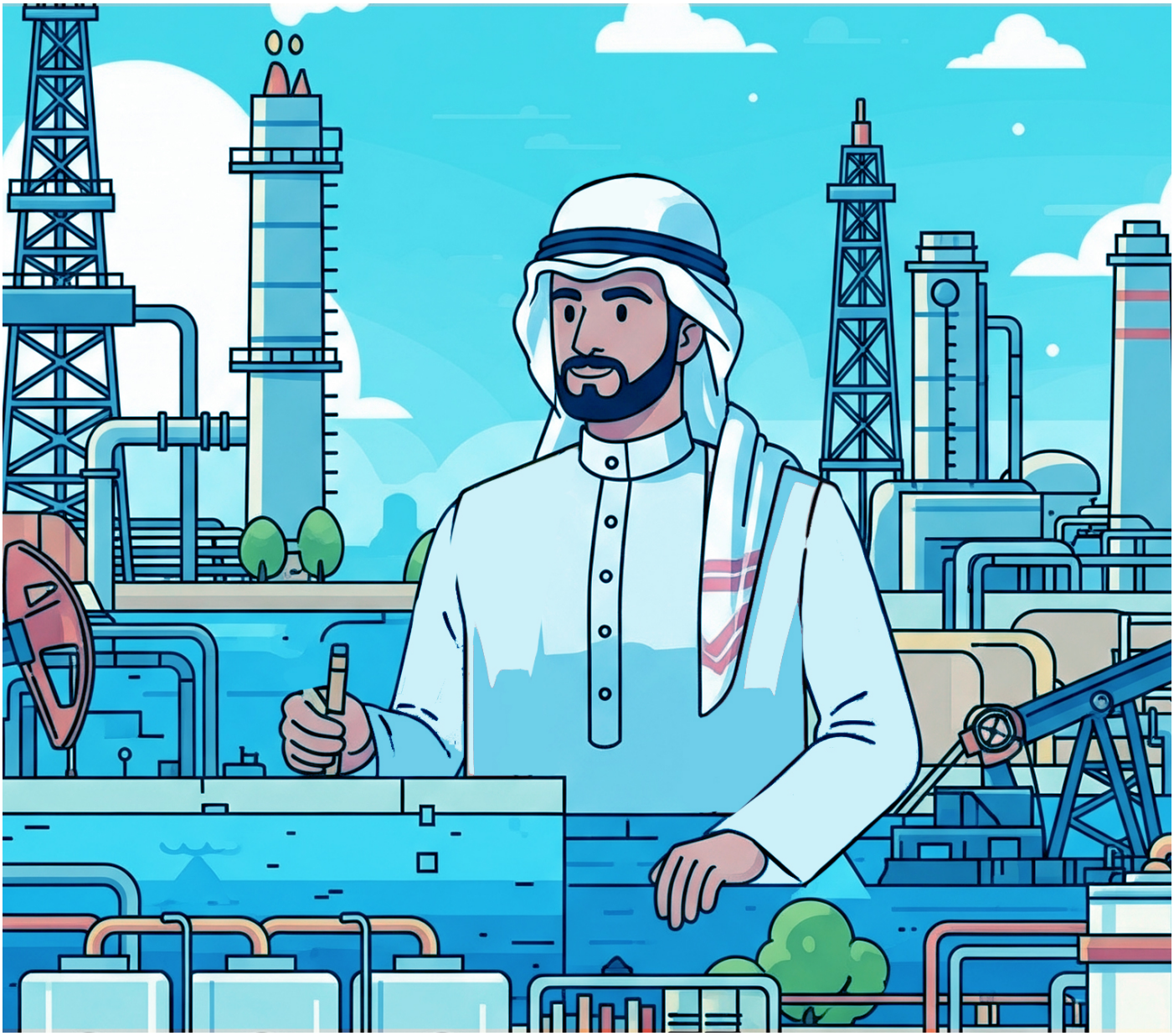

Oil, Gas and Chemical

Well Completion Design

Course Introduction

In the development of a hydrocarbon reservoir, many wells aredrilled and required to be completed, to allow the structure to
be depleted. However, the drilling and completion operations are crucial to the l ong term viability of the wells in meeting the specified objectives.

The design and completion of both production and injection wells are required to satisfy several objectives including:

- Provision of optimum production/injectionper formance
- Ensure safety
- Maximize the integrity and reliability of the completion over the envisaged life of the completedwell
- Minimize the total costs per unit volume of fluid produced or injected, i.e.
- Minimize the costs of initial completion, maintaining production and remedial measures

Target Audience

- Process design
- Unit Operator
- Environmental
- Process safety engineer
- Gasoline blender engineer
- Lab supervisor
- Supply chain engineer
- Distillates analyst
- Models engineer
- Chemical Operator
- Chemical Plant Operator
- Chemical Process Technician
- Control Room Supervisor
- Gas Plant Process Operator

- Gas Production Operator
- Gas Terminal Operations and Storage
- Gathering Pipeline engineer
- Oil Terminal / Storage engineer
- Pipeline Maintenance / Equipment / Compliance / Repair
- Pipeline Testing / Technician / Supervisor / Safety
- Plant Equipment Operator
- Plant Operations Technician
- Plant Shutdown
- Plant Supervisor
- Power Distribution
- Power Plant Manager
- Process Supervisor
- Refinery Operations Technician / Manager
- Terminal Operator / Manager
- Utilities Operator

Learning Objectives

- Production Packer functions
- Packers Types
- Packers Generic Mechanisms
- Permanent and Retrievable Packers

Course Outline

- **01 Day One**

Well Completion Design, Practices and Strategies

  - Introduction of Reservoir Drive Mechanism

- Introduction into Artificial lift methods and their application
- IPR and Productivity Index
- Vertical Lift Performance
- Well Outflow and Inflow Systems
- Typical Vertical Lift Performance (VLP) for Various Tubing Sizes
- Matching VLP Curves with an IPR Curve
- Well Completion Design Considerations
- Reservoir Considerations
- Mechanical Considerations
- Classification of Completions

• 02 Day Two

Lower & Upper Completion String Components & Selection Consideration

- Production Packer functions
- Packers Types
- Packers Generic Mechanisms
- Permanent and Retrievable Packers
- Locator Seals and Anchor Seals
- Applications for Permanent and for Retrievable Packers
- Setting Packers
- Inflatable Packer Applications
- Sliding Side Door Function
- Gas Lift Mandrel
- Running the Completion
- Perforation Methods and Perforating Equipment
- Perforation Selection and Conveying Methods

• 03 Day Three

Wellheads / Sub-Surface Safety Valves & Flow Control Equipment

- Wellheads Components, Function and Types
- Subsurface Safety Valves Function
- Safety Valves Types
- Setting Depth of Subsurface Safety Valves Consideration
- Surface Control Subsurface Safety Valves
- Flow Control Devices
- Nipple Profiles Types and Plug Selection

- Workover Reasons
- Well Killing Operations Technique and Consideration
- Example for Workover Operations (Gas lift wells, Natural gas well, ESP well)

- **04 Day Four**

Overview of Sand Control Completion

- Sandstone Formation Properties and Geology
- What causes Sand Production?
- Consequences of Sand Production Downhole and on Surface
- What is the mean of sand control?
- Perforation System for Non-sand Control Completion
- Sand Control Options
- Chemical Consolidation
- Mechanical Sand Control Methods
- Cased Hole Gravel Pack
- Open Hole Gravel Packing
- Expandable Screens
- Gravel Pack Design, Gravel Sizing and Slot Sizing
- Placement Methods
- Carrier Fluid Concept
- Choosing the Appropriate Method of Sand Control
- Losses Controlling during Sand Control Operations
- Perforating System for Sand Control
- Standalone Screen Applications

- **05 Day Five**

Fundamentals of Rigless Operations Theory & Stimulation

- Coiled Tubing Surface and Subsurface Components
- Coiled Tubing Applications
- Cleaning Operations with CT
- Well Back Flow (nitrogen lift)
- Wireline Types and Application
- Surface and Subsurface Components of Wireline
- Formation Damage Mechanisms and their Remediation
- Stimulation Design Considerations
- The Most Important Production Logging (PLT)

◦ Well Barrier Philosophy during Well Interventions

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 4, 2025	May 8, 2025	5 days	4250.00 $	Bahrain - Manama
May 5, 2025	May 9, 2025	5 days	4250.00 $	UAE - Dubai
July 7, 2025	July 11, 2025	5 days	4950.00 $	England - London
July 21, 2025	July 25, 2025	5 days	4250.00 $	UAE - Abu Dhabi
Sept. 1, 2025	Sept. 5, 2025	5 days	4250.00 $	UAE - Dubai
Oct. 6, 2025	Oct. 10, 2025	5 days	4250.00 $	UAE - Abu Dhabi