



Oil, Gas and Chemical

## Smart Well Drilling Completion: Horizontal Wells and Integrity

## Course Introduction

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Well Integrity management is looked at in three distinct stages. The first stage is during the well design which includes material selection, engineering design, and cement design. The second stage is monitoring the well during the life of the well locating potential leaks and/or loss of metal. The last stage is to manage and control any good integrity issues using specialized products, services, and techniques.

## Target Audience

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- 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

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- To summarize smart well completions, its components, and different design options to meet.
- Safe deliverability, integrity, and work-over operations.
- Case studies to understand more aspects.

## Course Outline

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- **01 Day One**

### **Introduction and Definitions**

- Examples of Well Integrity Failures and their Consequences
- Well Integrity Management System Overview
- Management and Continual Improvement
- Regulations, Policies, and Standards
- Safety-Critical Elements, Barriers, and Performance Standards
- Roles and Responsibilities
- Measurement, Review and Improvement

- **02 Day Two**

### **Introduction to Completion**

- Smart Completion Equipment
- Multilateral & Horizontal Wells Technology
- Well Integrity Challenges in Horizontal Wells
- Packer Technology

### • 03 Day Three

#### Intelligent Completion SPE Case Studies

- Hydraulic Line Wet Mate (HLWM) Connect System
- Types of ICDs

### • 04 Day Four

#### ICD Completion Design Optimization

- Artificial Lift Combined with Smart Completion
- New ICD Technology
- Case Studies

### • 05 Day Five

#### Smart Completion Fully Electric System

- i-Field
- Problem Solving Lab

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 4, 2025	May 8, 2025	5 days	4250.00 \$	Qatar - El Doha
Aug. 4, 2025	Aug. 8, 2025	5 days	4950.00 \$	Austria - Vienna

FROM	TO	DURATION	FEEs	LOCATION
Dec. 8, 2025	Dec. 12, 2025	5 days	4250.00 \$	UAE - Dubai
Feb. 2, 2025	Feb. 6, 2025	5 days	4250.00 \$	KSA - Al Khobar