COURSE BROCHURE

Well Completion and Workover Operations

A practical course covering completion design and equipment, perforating, sand control and stimulation, then well intervention and workover from diagnosing the problem to writing the job program.

Code	HT-OGE-116
Category	Oil & Gas, Engineering & Maintenance
Duration	1 week
Level	Intermediate

Introduction

The completion is the link between reservoir and surface, and any weakness in its design limits the well's productivity for life. As fields across the region mature, the volume of workover and intervention needed to restore production and maintain well integrity keeps growing.

Objectives

- Select a completion type suited to the reservoir and the well objectives
- Explain the function and selection criteria of each component in the completion string
- Compare perforating, sand control and stimulation methods
- Distinguish well intervention methods and the limits of each
- Diagnose well problems and prepare a workover program that maintains well barriers

Who should attend

- Completion and workover engineers
- Production and petroleum engineers in the field
- Workover rig and well intervention supervisors
- Drilling and reservoir engineers involved in well design

Skills you will develop

- Reading and preparing completion schematics
- Selecting completion equipment and fluids
- Planning intervention and workover jobs
- Assessing well barriers and integrity

Learning Outcomes

- Draw a completion schematic for a producing well, naming components and setting depths
- Choose a perforating method, shot density and underbalance for a given case
- Identify the most suitable intervention method for a problem such as scale or a tubing leak
- Write the operational sequence of a workover program including well kill and barrier verification

Course Outline

Day 1: Completion Design Basics

- Reservoir and production requirements that govern design, inflow performance and tubing sizing

- Open hole and cased hole completions; single, dual and intelligent completions
- Lower completions for horizontal wells: slotted liners and inflow control devices

Day 2: Completion Equipment and Fluids

- Tubing, permanent and retrievable packers, sliding sleeves and landing nipples
- Subsurface safety valve, wellhead, Christmas tree and tubing hanger
- Completion brines and filtration, and metallurgy selection for sour service with H2S and CO2

Day 3: Perforating, Sand Control and Stimulation

- Shaped charges, shot density, phasing and underbalanced perforating on wireline or TCP
- Sand control: gravel packs, standalone screens and frac-packs
- Matrix acidizing in carbonate reservoirs and the principles of hydraulic fracturing

Day 4: Well Intervention

- Slickline, electric line and wellhead pressure control equipment
- Coiled tubing and its use in cleanouts, nitrogen lifting and acid placement
- Fishing, scale removal and water shut-off

Day 5: Workover Planning and Applied Project

- Reasons for workover: tubing leaks, sustained annulus pressure and declining production
- Killing the well, the two-barrier principle, and pulling and rerunning the completion with a workover rig
- Applied workshop in which each team prepares a workover program for a well with a tubing leak and rising water cut

Training methodology

Exercises in reading and drawing completion schematics
Case studies of underperforming wells and diagnosis of the causes
Video and cutaway models of packers, safety valves and wireline tools
Final workshop writing and presenting a workover program

Certification

Participants receive a Harbor Training Center certificate of attendance on completing the course.

Upcoming dates

City	Dates	Language	Fee
Istanbul	11 – 15 January 2027	AR-EN	EUR 5,400
Dubai	18 – 22 January 2027	AR-EN	EUR 4,800
London	25 – 29 January 2027	AR-EN	EUR 5,800
Amsterdam	1 – 5 February 2027	AR-EN	EUR 6,100
Online	8 – 12 February 2027	AR-EN	EUR 2,800
Istanbul	12 – 16 July 2027	AR-EN	EUR 5,400
Dubai	19 – 23 July 2027	AR-EN	EUR 4,800
London	26 – 30 July 2027	AR-EN	EUR 5,800
Amsterdam	2 – 6 August 2027	AR-EN	EUR 6,100
Online	9 – 13 August 2027	AR-EN	EUR 2,800

Fees are per participant.

Contact us

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To register and for details, scan the code or visit:

https://harbor4training.com/en/courses/well-completion-workover