

TRAINING TITLE

OIL PRODUCTION AND PROCESSING FACILITIES

Training Duration

5 days

Training Venue and Dates

PE342	Oil Production and Processing Facilities	5	08-12 Dec 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course provides a comprehensive overview of the design, operation, and optimization of oil production and processing facilities. It covers the key elements of oil field production, including the processing and treatment of crude oil, gas, and water. The course will also introduce participants to the equipment, technologies, and systems used in the production process, from wellhead to transportation. The focus will be on optimizing production while ensuring safety, efficiency, and environmental compliance.

TRAINING OBJECTIVES

By the end of this course, participants will be able to:

- Understand the components and layout of oil production and processing facilities.
- Learn the key processes involved in the treatment and processing of crude oil and associated fluids.
- Gain knowledge of the equipment used in production and processing operations.
- Understand the flow of materials through oil production facilities.
- Learn how to optimize production while minimizing environmental impact.

WHO SHOULD ATTEND?

- Engineers and technicians involved in the oil and gas production sector.

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- Professionals working in operations, production, or facilities management.
- Personnel interested in understanding the design, operation, and maintenance of oil production and processing systems.
- Individuals new to the industry looking to build a strong understanding of oil production facilities.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM:

Day 1: Introduction to Oil Production and Processing Facilities

- Overview of oil production systems and processing facilities.
- Key components: Wellheads, flowlines, separators, and storage.
- Types of production facilities: Onshore vs. offshore facilities.
- Health, safety, and environmental considerations.

Day 2: Oil Production Systems

- Primary production methods: Natural flow, artificial lift, and gas lift.
- Overview of drilling, well completion, and initial production systems.
- Separation of oil, gas, and water at the wellhead.
- Basic flow assurance concepts.

Day 3: Processing of Oil, Gas, and Water

- Separation techniques: Two-phase and three-phase separators.

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- Oil treatment: Desalting, dehydration, and stabilization.
- Gas processing: Compression, dehydration, and sweetening.
- Water treatment and disposal methods.

Day 4: Surface Facilities and Equipment

- Storage tanks, pipelines, and flowlines.
- Pumps, compressors, and pressure control systems.
- Measurement and monitoring systems: Flow meters, pressure gauges, and temperature sensors.
- Gas and liquid transportation systems.

Day 5: Optimization and Maintenance of Production and Processing Facilities

- Production optimization techniques: Pressure management, enhanced oil recovery.
- Maintenance and troubleshooting of production equipment.
- Addressing common production challenges: Scale, corrosion, and wax deposition.
- Environmental and regulatory compliance in oil production facilities.



NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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