

**TRAINING TITLE**

**OIL FIELD SURFACE FACILITY OPERATIONS**

**Training Duration**

**5 day**

**Training Venue and Dates**

<b>Ref. No. PE167</b>	<b>Oil field surface facility operations</b>	<b>5</b>	<b>30 June- 04 July 2025</b>	<b>\$5,500</b>	<b>DUBAI, UAE</b>
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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 Consultants Certificate of course completion will be issued to all attendees.**

**TRAINING DESCRIPTION**

This course provides an in-depth understanding of the operations and maintenance of surface facilities in oil fields. Participants will learn about the systems and equipment used for the extraction, processing, and transportation of oil and gas, as well as the operational safety protocols and best practices involved in managing these facilities.

**TRAINING OBJECTIVES**

**By the end of the course, participants will be able to understand**

- Understand the key components and systems of oil field surface facilities.
- Learn the processes involved in the extraction, processing, and transportation of oil and gas.
- Gain knowledge of operational and maintenance procedures for oil field surface equipment.
- Learn about safety standards and best practices for operating surface facilities.
- Develop troubleshooting and problem-solving skills for common surface facility issues.

**WHO SHOULD ATTEND?**

- Petroleum Engineering
- Oil and Gas Engineering

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- Energy Engineering
- Chemical Engineering
- Mechanical Engineering
- Process Engineering
- Industrial Engineering
- Operations Management
- Energy Management

### **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 Field Surface Facilities**

- Overview of surface facilities in oil and gas operations
- Types of surface facilities: Wellheads, production manifolds, separators, and tanks
- Basic layout and configuration of surface equipment
- Role of surface facilities in oil and gas production

#### **Day 2: Oil and Gas Production Systems**

- Wellhead operations and production systems
- Separators and gas dehydration systems
- Storage and transportation of crude oil and natural gas
- Pumps, compressors, and other key production equipment

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**Day 3: Processing and Treatment of Oil and Gas**

- Oil and gas separation processes: Three-phase separators
- Water and gas treatment systems (dehydration, filtration, etc.)
- Gas compression and transportation systems
- Basic treatment of produced water and waste management

**Day 4: Maintenance and Troubleshooting of Surface Equipment**

- Routine maintenance tasks for surface equipment
- Troubleshooting common issues: Leaks, blockages, equipment failures
- Maintenance strategies for ensuring operational reliability
- Managing equipment downtime and spare parts inventory

**Day 5: Safety and Environmental Management**

- Safety protocols for oil field surface operations
- Hazardous material handling, gas detection, and emergency response
- Environmental regulations and spill management
- Best practices for maintaining operational safety and compliance



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**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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