



External Training Course

Next-Generation Petroleum Operations: Safety, Reliability & Smart Technologies

From 15 Dec. 2025 To 19 Dec. 2025

From 05 Jan. 2026 To 09 Jan. 2026

From 02 Feb. 2026 To 06 Feb. 2026

The H Dubai Hotel, Dubai, UAE

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External Training Course:

Next-Generation Petroleum Operations: Safety, Reliability & Smart Technologies

From 15 Dec. 2025 To 19 Dec. 2025

Fees: 1300 KD

From 05 Jan. 2026 To 09 Jan. 2026

Fees: 1300 KD

From 02 Feb. 2026 To 06 Feb. 2026

Fees: 1300 KD

A special group discount is available for 4 participants or more at a rate of 950 KWD per participant.

Course Overview

This professional training program is designed to equip petroleum operations employees with advanced skills to manage day-to-day operational challenges efficiently and safely. The course emphasizes practical approaches to reliability, digital tools, safety, and sustainable operations. Participants will gain hands-on knowledge and actionable skills to enhance operational performance, reduce downtime, and contribute effectively to organizational goals.

Course Objectives

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

- Understand the core principles of petroleum operations in production and processing environments.
- Apply best practices for reliability, preventive maintenance, and asset management.
- Enhance operational safety awareness and risk management skills.
- Utilize digital tools and basic AI applications to monitor and improve operations.
- Implement sustainable practices to reduce energy consumption and emissions.
- Adapt to emerging technologies and prepare for future operational challenges.

Training Methodology

Interactive expert-led lectures.

Case studies from leading international oil & gas companies.

Hands-on workshops and group exercises.

Problem-solving simulations of real-world challenges.

Peer-to-peer discussions and experience sharing.

Personal Impact

Enhanced technical skills and operational confidence.

Ability to apply digital, safety, and sustainable practices effectively.

Improved problem-solving and decision-making in daily tasks.

Organisational Impact

Increased operational efficiency and reliability.

Reduced downtime and improved asset utilization.

Safer work environment and lower incident rates.

Workforce readiness for digital and sustainable operational practices.

Course Modules & Content

Day 1 – Core Petroleum Operations

- Introduction to Petroleum Operations
- Overview of Production & Processing Workflows
- Roles and Responsibilities of Operations Staff
- Key Performance Indicators (KPIs) and Operational Standards
- Practical Exercises: Daily Operational Routines

Day 2 – Reliability and Maintenance Practices

- Fundamentals of Equipment Reliability
- Preventive vs Predictive Maintenance
- Techniques to Minimize Downtime
- Asset Integrity and Lifecycle Management Basics
- Case Studies: Real-World Reliability Challenges

Day 3 – Safety and Risk Management

- Safety Culture and Compliance Requirements
- Hazard Identification and Risk Assessment
- Incident Prevention and Emergency Preparedness
- Tools and Methods for Operational Safety
- Workshop: Safety Scenarios and Role-Play

Day 4 – Digital Tools for Operations

- Introduction to SCADA and Monitoring Systems
- Real-Time Data Collection and Dashboard Utilization
- Basic AI Applications in Operations
- Data-Driven Decision-Making
- Hands-On Session: Using Digital Tools in Operations

Day 5 – Sustainable Operations & Future Readiness

- Energy Efficiency in Petroleum Operations
- Reducing Operational Emissions and Environmental Impact
- Waste Management Best Practices
- Preparing for Technological Changes in Operations
- Personal Development & Career Growth in Petroleum Operations
- Final Workshop: Integrating Skills into Daily Operations

Course Agenda (Bilingual A/E):

(1st Day) Agenda

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>Discuss Course Major Points:</u> <ul style="list-style-type: none"> • Core Petroleum Operations. • Reliability and Maintenance Practices. • Safety and Risk Management. • Digital Tools for Operations. • Sustainable Operations & Future Readiness.
11.30	12.00	Coffee Break
12.00	14.00	<u>Core Petroleum Operations:</u> <ul style="list-style-type: none"> • Introduction to Petroleum Operations. • Overview of Production & Processing Workflows. • Roles and Responsibilities of Operations Staff. • Key Performance Indicators (KPIs) and Operational Standards. • Practical Exercises: Daily Operational Routines.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	<u>Reliability and Maintenance Practices:</u> <ul style="list-style-type: none"> • Fundamentals of Equipment Reliability. • Preventive vs Predictive Maintenance. • Techniques to Minimize Downtime.
11.30	12.00	Coffee Break
12.00	14.00	<u>Reliability and Maintenance Practices:</u> <ul style="list-style-type: none"> • Asset Integrity and Lifecycle Management Basics. • Case Studies: Real-World Reliability Challenges.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	<u>Safety and Risk Management:</u> <ul style="list-style-type: none"> • Safety Culture and Compliance Requirements • Hazard Identification and Risk Assessment • Incident Prevention and Emergency Preparedness
11.30	12.00	Coffee Break
12.00	14.00	<u>Safety and Risk Management:</u> <ul style="list-style-type: none"> • Tools and Methods for Operational Safety • Workshop: Safety Scenarios and Role-Play
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	<u>Digital Tools for Operations:</u> <ul style="list-style-type: none"> • Introduction to SCADA and Monitoring Systems • Real-Time Data Collection and Dashboard Utilization • Basic AI Applications in Operations
11.30	12.00	Coffee Break
12.00	14.00	<u>Digital Tools for Operations:</u> <ul style="list-style-type: none"> • Data-Driven Decision-Making • Hands-On Session: Using Digital Tools in Operations
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	<u>Sustainable Operations & Future Readiness:</u> <ul style="list-style-type: none"> • Energy Efficiency in Petroleum Operations • Reducing Operational Emissions and Environmental Impact • Waste Management Best Practices
11.30	12.00	Coffee Break
12.00	14.00	<u>Sustainable Operations & Future Readiness:</u> <ul style="list-style-type: none"> • Preparing for Technological Changes in Operations • Personal Development & Career Growth in Petroleum Operations • Final Workshop: Integrating Skills into Daily Operations.
14.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch