

AMERICAN GLOBAL INSTITUTE
FOR PRIVATE TRAINING



External Training Course

Risk Management Protocols in Oil & Gas: Ensuring Safety & Compliance

From 07 Apr. To 11 Apr. 2025
From 09 Jun. To 13 Jun. 2025
From 04 Aug. To 08 Aug. 2025

**Hotel Skypark Central Myeongdong
Seoul, South Korea**

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External Training Course:

Risk Management Protocols in Oil & Gas: Ensuring Safety & Compliance

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Fees: 2500 KD

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Course Overview:

Petroleum engineers play a critical role in ensuring safe, efficient, and sustainable oil and gas operations. This 5-day intensive training course provides petroleum engineers with the necessary skills and knowledge to identify, evaluate, and mitigate risks across the upstream, midstream, and downstream sectors. Participants will learn practical risk management protocols, compliance strategies, and safety measures to enhance operational efficiency and prevent incidents.

Course Objectives:

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

- Identify major risks in petroleum exploration, drilling, production, and transportation.
- Analyze and evaluate risks using industry-standard methodologies.
- Implement mitigation strategies to enhance safety and operational continuity.
- Ensure compliance with international regulations and best practices.
- Apply risk-based decision-making techniques in field operations.
- Utilize advanced tools for hazard identification and risk assessment.

Who Should Attend?

This course is designed for:

- Petroleum Engineers (Drilling, Production, Reservoir, and Process Engineers).
- HSSE Engineers & Safety Professionals.
- Operations & Maintenance Engineers.
- Process Safety & Risk Management Teams.
- Project Engineers & Managers in Oil & Gas.

Course Outline:

Day 1: Foundations of Risk Management in Petroleum Engineering

- Introduction to Risk Management Frameworks (ISO 31000, API RP 580/581)
- Understanding hazards in oil & gas operations
- Case study: Lessons learned from major industry incidents

Day 2: Risk Identification & Assessment in Petroleum Operations

- Hazard identification techniques (HAZID, HAZOP, Bowtie Analysis)
- Qualitative vs. Quantitative Risk Assessment (QRA)
- Risk modeling tools: Fault Tree & Event Tree Analysis

Day 3: Risk Mitigation Strategies for Petroleum Engineers

- Process Safety Management (PSM) principles
- Well integrity and blowout prevention strategies
- Emergency response planning & crisis management

Day 4: Regulatory Compliance & Safety Standards

- International standards & regulations (API, OSHA, NFPA, IEC 61508, ISO 45001)
- Managing environmental risks: spill prevention & control
- Risk audits & compliance reporting

Day 5: Risk-Based Decision Making & Practical Case Studies

- Integrating risk management into petroleum engineering workflows
- Advanced risk monitoring tools & digital solutions
- Group exercises & workshop.

Training Methodology:

Expert-led training sessions by industry professionals.

Hands-on case studies from oil & gas operations.

Interactive group discussions & Q&A sessions.

Risk assessment exercises.

Certification upon successful completion.

Why Attend?

Enhance safety & risk management skills for petroleum operations.

Improve compliance & regulatory understanding.

Reduce downtime & operational risks.

Gain practical experience through case studies.

Network with industry peers & experts.

Program Agenda:

(1st Day) Agenda

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>DISCUSS COURSE OBJECTIVES:</u> <ul style="list-style-type: none"> • Foundations of Risk Management in Petroleum Engineering. • Risk Identification & Assessment in Petroleum Operations. • Risk Mitigation Strategies for Petroleum Engineers. • Regulatory Compliance & Safety Standards. • Risk-Based Decision Making & Practical Case Studies.
11.30	12.00	Coffee Break
12.00	14.00	<u>Foundations of Risk Management in Petroleum Engineering:</u> <ul style="list-style-type: none"> • Introduction to Risk Management Frameworks (ISO 31000, API RP 580/581). • Understanding hazards in oil & gas operations. • Case study: Lessons learned from major industry incidents.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	<u>Risk Identification & Assessment in Petroleum Operations:</u> <ul style="list-style-type: none"> • Hazard identification techniques (HAZID, HAZOP, Bowtie Analysis). • Qualitative vs. Quantitative Risk Assessment (QRA).
11.30	12.00	Coffee Break
12.00	14.00	<u>Risk Identification & Assessment in Petroleum Operations:</u> <ul style="list-style-type: none"> • Risk modeling tools: Fault Tree & Event Tree Analysis. • Practical exercise through case studies.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	<u>Risk Mitigation Strategies for Petroleum Engineers:</u> <ul style="list-style-type: none"> • Process Safety Management (PSM) principles. • Well integrity and blowout prevention strategies.
11.30	12.00	Coffee Break
12.00	14.00	<u>Risk Mitigation Strategies for Petroleum Engineers:</u> <ul style="list-style-type: none"> • Emergency response planning & crisis management. • Practical exercise through case studies.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	<u>Regulatory Compliance & Safety Standards:</u> <ul style="list-style-type: none"> • International standards & regulations (API, OSHA, NFPA, IEC 61508, ISO 45001). • Managing environmental risks: spill prevention & control.
11.30	12.00	Coffee Break
12.00	14.00	<u>Regulatory Compliance & Safety Standards:</u> <ul style="list-style-type: none"> • Risk audits & compliance reporting. • Practical exercise through case studies.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	<u>Risk-Based Decision Making & Practical Case Studies:</u> <ul style="list-style-type: none"> • Integrating risk management into petroleum engineering workflows • Advanced risk monitoring tools & digital solutions
11.30	12.00	Coffee Break
12.00	14.00	<u>Risk-Based Decision Making & Practical Case Studies:</u> <ul style="list-style-type: none"> • Group exercises & workshop.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch