

COURSE BROCHURE

# Oil & Gas Safety Management

Professional Training Course

Skillslab Training Provider

Skills for Tomorrow's World 



## Course Description

### Introduction

Oil & Gas Safety Management is a premium professional training program designed for government entities, ministries, public sector organizations, national oil companies, international energy corporations, contractors, and executive professionals responsible for managing safety in high-risk oil and gas environments. The oil and gas industry operates under complex operational, technical, regulatory, environmental, and human-factor risks, making effective safety management a critical requirement for protecting people, assets, production continuity, reputation, and stakeholder confidence. This course provides a strategic and practical learning experience focused on oil and gas safety systems, hazard identification, risk assessment, process safety, operational controls, emergency preparedness, contractor safety, incident prevention, and safety leadership. The executive-level value of this program lies in helping organizations strengthen safety performance, reduce major accident potential, improve regulatory compliance, enhance operational reliability, and build a proactive safety culture across upstream, midstream, and downstream operations.

### Course Objectives

- Develop a strong understanding of oil and gas safety management principles across exploration, drilling, production, processing, transportation, and refining operations.
- Strengthen the ability to identify major hazards, operational risks, unsafe conditions, and critical control failures.
- Apply practical risk assessment methods to high-risk activities in oil and gas facilities and field operations.
- Improve safety leadership, accountability, supervision, workforce engagement, and behavioral safety performance.
- Understand process safety management, major accident hazard control, permit-to-work systems, and safe operating procedures.
- Enhance contractor safety management, emergency preparedness, incident reporting, and accident prevention practices.

## Course Content

### Day 1: Foundations of Oil and Gas Safety Management

- Understanding safety management in the oil and gas industry.
- Key concepts: occupational safety, process safety, operational risk, major accident hazards, safety culture, and critical controls.
- Overview of safety challenges across upstream, midstream, and downstream operations.
- Common hazards in drilling, production, pipelines, processing plants, refineries, terminals, storage facilities, and offshore operations.
- The strategic importance of safety in protecting people, assets, production, reputation, and regulatory standing.
- Leadership responsibilities in building a strong safety management system.
- Legal, regulatory, governance, and industry expectations for oil and gas safety.
- Common causes of serious incidents and lessons learned from major oil and gas accidents.

### Day 2: Hazard Identification, Risk Assessment, and Operational Controls

- Practical methods for identifying hazards in oil and gas operations.
- Risk assessment techniques for high-risk tasks, facilities, equipment, and field activities.
- Understanding severity, likelihood, exposure, risk ranking, and control effectiveness.
- Applying the hierarchy of controls in oil and gas work environments.
- Managing risks related to drilling operations, well control, hydrocarbons, pressure systems, confined spaces, hot work, lifting operations, working at height, hazardous substances, and vehicle movement.
- Permit-to-work systems, job safety analysis, toolbox talks, isolation procedures, and lockout practices.
- Managing simultaneous operations and interface risks between multiple teams and contractors.
- Practical workshop: developing a risk control plan for an oil and gas operational scenario.

### Day 3: Process Safety, Critical Controls, and Major Accident Prevention

- Understanding the difference between occupational safety and process safety.
- Major accident hazards in oil and gas facilities and production systems.
- Process safety management elements and their role in preventing catastrophic incidents.

- Practical exercise: reviewing critical controls for a high-risk oil and gas operation.

#### **Day 4: Contractor Safety, Emergency Preparedness, and Incident Management**

- Contractor safety management in oil and gas projects and operations.
- Prequalification, induction, supervision, performance monitoring, and contractor accountability.
- Emergency preparedness for fire, explosion, gas release, oil spill, medical emergencies, evacuation, and business disruption.
- Emergency response planning, command structures, communication protocols, and coordination with external agencies.
- Incident reporting, near-miss reporting, investigation triggers, and evidence preservation.
- Root cause analysis and corrective action planning for oil and gas incidents.
- Crisis communication and stakeholder management during serious operational events.
- Simulation exercise: responding to an oil and gas emergency scenario.

#### **Day 5: Safety Culture, Performance Improvement, and Implementation Roadmap**

- Building a proactive safety culture in oil and gas organizations.
- Leadership engagement, workforce participation, safety observation, coaching, and accountability.
- Safety performance indicators, leading indicators, lagging indicators, dashboards, and trend analysis.
- Audits, inspections, management reviews, and continuous improvement in safety systems.
- Integrating safety management with operational excellence, environmental management, quality, risk, and business continuity.
- Communicating lessons learned and embedding improvements into procedures, training, and supervision.
- Developing a practical safety improvement roadmap for oil and gas operations.
- Final applied activity: presenting an oil and gas safety management improvement plan.

#### **Target Audience**

- Senior executives, directors, and managers responsible for safety, operations, risk, compliance, governance, and asset integrity.
- Government officials, ministry representatives, regulators, and public sector professionals overseeing oil and gas safety.
- Health, Safety, and Environment managers, officers, supervisors, advisors, and specialists.

gas projects.

- Emergency response teams, control room personnel, security teams, and crisis management team members.
- Professionals responsible for oil and gas safety performance, incident prevention, operational reliability, and workforce protection.

### **Course Requirements**

- Basic awareness of oil and gas operations, industrial safety, workplace risk, or operational management is helpful.
- No advanced engineering or technical background is required.
- Participants are encouraged to bring examples of safety procedures, risk assessments, incident reports, contractor safety challenges, or operational hazards from their organizations.
- The course is suitable for both experienced professionals and managers newly assigned to oil and gas safety responsibilities.

### **Training Methodology**

- Executive-level presentations supported by practical oil and gas safety examples.
- Interactive discussions focused on real operational hazards, field challenges, and safety leadership issues.
- Case studies from upstream, midstream, downstream, offshore, and industrial energy environments.
- Practical exercises in hazard identification, risk assessment, critical control review, emergency response, and incident analysis.
- Group workshops for developing safety procedures, risk control plans, and safety improvement roadmaps.
- Scenario-based learning to strengthen decision-making during high-risk operations and emergency situations.
- Action-oriented learning focused on practical implementation, measurable safety performance, and long-term incident prevention.

### **Learning Outcomes**

By the end of this Oil & Gas Safety Management training course, participants will be able to:

- Explain the core principles of oil and gas safety management, operational risk control, and major accident prevention.
- Identify key hazards and safety risks across upstream, midstream, and downstream oil and gas operations.

practices.

- Improve safety leadership, workforce engagement, accountability, and safety culture.
- Use safety performance indicators and incident data to support continuous improvement.
- Develop a practical oil and gas safety management improvement roadmap aligned with organizational priorities.

### **Instructor Profile**

The course will be delivered by an internationally certified expert with extensive practical and consulting experience. The instructor brings deep professional knowledge in oil and gas safety management, process safety, operational risk control, incident prevention, emergency preparedness, contractor safety, regulatory compliance, safety leadership, and organizational safety culture. The training approach combines executive-level insight with field-tested tools and real-world application, ensuring participants gain practical methods they can immediately implement within government entities, ministries, public sector organizations, national oil companies, international energy corporations, contractors, and complex oil and gas operational environments.

# Contact Us

For registration inquiries, upcoming dates, or group pricing, please contact us:

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