

# HSE AUDIT & HAZARD MANAGEMENT IN OIL & GAS EXPLORATION & PRODUCTION OPERATIONS

*"Ensuring Operational Integrity and Risk Control Through Proactive HSE Strategies"*

## Schedule

Date	Venue	Fees (Face-to-Face)
22 - 24 Sep 2026	Manama - Bahrain	USD 2495 per delegate

► Available delivery methods: Face-to-Face & Online Training

## Introduction

The upstream oil and gas industry operates in complex, high-risk environments where health, safety, and environmental (HSE) management is non-negotiable. Effective HSE auditing and hazard control are essential not only to comply with regulations, but to prevent catastrophic incidents, safeguard personnel, and ensure sustainable operations.

This intensive 3-day course provides practical, up-to-date strategies for conducting thorough HSE audits and implementing robust hazard identification and risk management systems specifically tailored for exploration and production (E&P) settings. Participants will learn how to enhance operational safety through compliance, proactive hazard control, and continuous improvement practices.

## Objectives

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

- Understand the structure and purpose of HSE audits in E&P environments
- Conduct risk-based audits and evaluate compliance with regulatory and industry standards
- Identify, assess, and control operational hazards through systematic approaches
- Develop and monitor corrective action plans following audit findings
- Promote a proactive HSE culture aligned with global best practices

## Why Attend

- Enhance your organization's safety performance and incident prevention measures
- Learn how to design and execute effective HSE audits and inspections
- Gain confidence in evaluating risks across drilling, production, and support activities
- Align operational safety systems with ISO 45001, API RP 75, and IOGP frameworks
- Build competence in managing hazards, near misses, and unsafe conditions

## Target Audience

This program is designed for:

- HSE officers, auditors, and coordinators in the oil and gas sector
- E&P operations managers and field supervisors
- Process safety and risk management professionals
- Internal auditors and compliance officers
- Maintenance, logistics, and production support personnel

## Individual Benefits

Key competencies that will be developed include:

- HSE audit planning, execution, and reporting skills
- Hazard identification and operational risk assessment
- Root cause analysis and follow-up action tracking
- Understanding of regulatory compliance in oil and gas
- Improved communication and leadership in HSE matters

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced HSE compliance and audit readiness
- Reduced operational risks and improved safety KPIs
- Systematic management of workplace hazards and near misses
- Greater accountability through audit trails and corrective action systems
- Stronger alignment with industry safety standards and client expectations

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - HSE frameworks, audit processes, and industry regulations
- Case Studies - Real-world oil & gas incidents and audit findings
- Workshops - Hazard mapping, audit checklists, and root cause analysis
- Peer Exchange - Sharing field experiences and lessons learned
- Tools - HSE audit templates, risk registers, and corrective action logs

## Course Outline

### DETAILED 3-DAY COURSE OUTLINE

**Training Hours: 7:30 AM - 3:30 PM** Daily Format: 3 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

#### Day 1: HSE Auditing Fundamentals in E&P

- Module 1: HSE Audit Principles and Regulatory Frameworks (07:30 - 09:30) • The role of audits in risk management and regulatory compliance • ISO 45001, API RP 75, IOGP guidelines overview • Planning audit scope, objectives, and criteria
- Module 2: HSE Audit Execution Techniques (09:45 - 11:15) • Interviewing, observation, and documentation review • Types of audits: compliance, systems, behavior-based • Gathering and evaluating audit evidence
- Module 3: Reporting and Corrective Actions (11:30 - 01:00) • Writing clear, actionable audit reports • Prioritizing findings and risk ranking • Developing and tracking corrective actions
- Workshop - Audit Planning and Checklist Design (02:00 - 03:30) • Create a mock audit plan and checklist for an offshore E&P facility

#### Day 2: Hazard Identification and Risk Management

- Module 1: Operational Hazards in Oil & Gas Exploration (07:30 - 09:30) • Well control, flammable atmospheres, confined spaces • Environmental hazards: spills, waste, noise • Equipment and human factor risks
- Module 2: Hazard Identification Techniques (09:45 - 11:15) • Job safety analysis (JSA) and hazard hunts • HAZID and bowtie analysis approaches • Permit to work (PTW) system integration
- Module 3: Risk Assessment and Mitigation (11:30 - 01:00) • Risk matrix, severity-likelihood scoring • Engineering, administrative, and PPE controls • Real-time hazard communication tools
- Workshop - Hazard Scenario Assessment (02:00 - 03:30) • Conduct a risk assessment for a drilling operation scenario

#### Day 3: Field Application and HSE Culture Development

- Module 1: Behavioral Safety and Field Verification (07:30 - 09:30) • Observation and engagement techniques • Behavior-based safety (BBS) programs • Safety walkdowns and inspections
- Module 2: Incident Investigation and Learning from Failures (09:45 - 11:15) • Root cause analysis (RCA) methods: 5 Whys, fishbone, TapRooT® • Near-miss and unsafe act reporting • Lessons learned documentation
- Module 3: Embedding a Proactive HSE Culture (11:30 - 01:00) • Leadership commitment and communication • HSE KPIs, dashboards, and audit follow-ups • Continuous improvement and workforce involvement
- Final Workshop - HSE Audit and Risk Management Action Plan (02:00 - 03:30) • Develop an HSE improvement plan based on audit findings • Group presentations and feedback

## Certification

Participants will receive a Certificate of Completion in HSE Audit & Hazard Management in Oil & Gas E&P Operations, confirming their ability to implement, evaluate, and continuously improve safety systems aligned with industry and regulatory standards.

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