Training Course on Managing Security Risks in the Oil and Gas Industry

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today's rapidly evolving global energy landscape, the **Oil and Gas industry** faces unprecedented **security threats** ranging from cyber-attacks and terrorism to supply chain disruptions and insider threats. These security challenges pose serious risks to assets, personnel, operations, and reputational integrity. This comprehensive training course is meticulously designed to equip professionals with the tools, frameworks, and tactical insights needed to assess, manage, and mitigate security risks in the oil and gas sector. It integrates real-world case studies, proactive strategies, and regulatory frameworks aligned with **ISO 31000**, **API security standards**, and **emergency preparedness protocols**.

With growing geopolitical tensions, environmental activism, and digital transformation, the need for robust, adaptive, and scalable **security risk management systems** has never been more critical. This program is essential for professionals aiming to drive **operational resilience**, ensure **regulatory compliance**, and uphold the integrity of critical infrastructure in volatile regions. Participants will gain hands-on expertise in conducting **threat assessments**, designing **security management plans**, leveraging **AI and IoT for security**, and implementing **business continuity measures** in upstream, midstream, and downstream operations.

Programme Curriculum

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Course Objectives

1. Identify emerging **physical and cyber threats** in oil and gas operations.
2. Develop comprehensive **risk mitigation strategies** aligned with global standards.
3. Implement **crisis management frameworks** tailored to energy infrastructure.
4. Integrate **AI and big data** tools in proactive security surveillance.
5. Conduct effective **vulnerability and threat assessments**.
6. Understand **regulatory and compliance frameworks** (e.g., API, OSHA, ISO).
7. Design and test **business continuity plans** for high-risk zones.
8. Evaluate the impact of **geopolitical conflicts** on asset security.
9. Implement **SCADA system protection** and digital infrastructure safety.
10. Analyze past **security breach case studies** and apply lessons learned.
11. Collaborate with **law enforcement and local stakeholders** effectively.
12. Develop **incident response strategies** and post-incident recovery.
13. Assess **environmental activism threats** and stakeholder engagement tactics.

Organizational Benefits

- Improved **risk resilience** and faster response to security threats
- Enhanced **compliance and audit readiness** for global standards
- Increased **operational continuity and employee safety**
- Reduced **financial and reputational losses** from potential breaches
- Stronger **inter-agency coordination** and crisis communication protocols

Target Participants

1. Security Managers in Oil & Gas
2. HSE (Health, Safety & Environment) Officers
3. Compliance and Regulatory Officers
4. Infrastructure Risk Assessors
5. Facility Operations Managers
6. Emergency & Crisis Response Coordinators
7. Cybersecurity Officers
8. Asset Protection Specialists

Course Outline

Module 1: Introduction to Security Risks in Oil & Gas

- Overview of global and regional threats
- Industry-specific security trends
- Importance of integrated risk management
- Definitions and key terminologies
- Legal and regulatory landscape

Module 2: Threat and Vulnerability Assessment

- Threat identification techniques
- Risk profiling methodology
- Vulnerability scoring systems
- Site and asset mapping
- Case study analysis

Module 3: Physical Security Controls

- Perimeter security planning
- Access control systems
- Surveillance and monitoring technologies
- Guard force management
- Infrastructure protection

Module 4: Cybersecurity in Oil & Gas

- SCADA and ICS vulnerabilities
- Network segmentation
- AI-based intrusion detection
- Cyber incident management
- Data protection regulations

Module 5: Crisis Management and Emergency Response

- Emergency scenario planning
- Stakeholder coordination
- Crisis simulation drills
- Evacuation and lockdown protocols
- Real-time communication systems

Module 6: Insider Threats and Sabotage Prevention

- Identifying behavioral risk indicators
- Access control policies
- Whistleblower programs
- Monitoring and detection
- Training and awareness

Module 7: Supply Chain Security

- Vendor risk management
- Logistics and transit risk assessment

- Third-party audit standards
- Procurement security protocols
- Contractual security obligations

Module 8: Security Technology and Innovation

- AI and ML in threat prediction
- Smart sensors and drones
- IoT for infrastructure surveillance
- Blockchain in supply chain security
- Real-time monitoring systems

Module 9: Regulatory and Compliance Frameworks

- ISO 31000, API RP 780, OSHA
- Local and international laws
- Industry best practices
- Security audits
- Compliance documentation

Module 10: Environmental and Activist Threats

- Understanding protest dynamics
- Risk from non-state actors
- Negotiation and conflict de-escalation
- Media response planning
- Community engagement strategies

Module 11: Incident Response Planning

- Response team roles and structure
- Forensic investigation procedures
- Chain of custody protocols
- Documentation and reporting
- Post-incident review

Module 12: Business Continuity and Recovery

- Continuity planning framework
- Recovery time objectives (RTO)
- Resource prioritization
- Backup facilities
- Periodic testing and updates

Module 13: Geopolitical Risk Management

- Mapping political risk scenarios
- Insurance and risk transfer
- Strategic intelligence gathering
- Operational relocation strategies
- Liaising with embassies and agencies

Module 14: Case Studies of Major Breaches

- Real-world security breach examples
- What went wrong: root causes
- Recovery process evaluations
- Key takeaways
- Application in current environments

Module 15: Final Simulation and Risk Strategy Presentation

- Group simulation challenge
- Develop risk mitigation strategy
- Present solutions to panel
- Peer review
- Certificate award and feedback

Training Methodology

- Interactive lectures by industry experts
- Real-life case studies and role plays
- Hands-on group simulations and exercises
- Visual storytelling and scenario walkthroughs
- Assessment-based certification and feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org **or call** *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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