Training Course on Offshore Safety and Risk Management Systems

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The offshore energy sector operates in a demanding and hazardous environment, making robust **offshore safety** and effective **risk management systems** paramount. Training Course on Offshore Safety & Risk Management Systems is meticulously designed to equip professionals with the essential knowledge and skills to identify, assess, and mitigate potential hazards associated with offshore operations. By focusing on internationally recognized standards and best practices, participants will gain a deep understanding of **safety regulations**, **emergency response planning**, and the critical role of a strong **safety culture** in preventing accidents and ensuring operational integrity. This course emphasizes practical application through real-world **case studies** and interactive exercises, fostering a proactive approach to safety and risk mitigation.

Investing in thorough **offshore safety training** and implementing robust **risk management frameworks** yields significant organizational benefits. A well-trained workforce is better equipped to handle complex situations, reducing the likelihood of costly accidents, operational downtime, and environmental incidents. Furthermore, adherence to stringent **safety standards** enhances regulatory compliance, improves stakeholder confidence, and strengthens the organization's reputation. By cultivating a strong **safety culture** and empowering employees with the necessary skills in **hazard identification**, **risk assessment**, and **incident investigation**, organizations can achieve greater operational efficiency, protect their assets, and, most importantly, safeguard the lives of their personnel.

Programme Curriculum

Training Course on Offshore Safety & Risk Management Systems

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Course Duration

5 days

Course Objectives

Upon successful completion of this training course, participants will be able to:

1. Understand the fundamental principles of **offshore safety regulations** and international standards.
2. Identify and analyze various **offshore hazards** associated with drilling, production, and marine operations.
3. Apply different **risk assessment techniques** to evaluate the likelihood and consequences of potential incidents.
4. Develop and implement effective **risk mitigation strategies** and control measures.
5. Comprehend the elements of a comprehensive **safety management system (SMS)**.
6. Participate effectively in **emergency response planning** and execution.
7. Understand the importance of **permit-to-work systems** and safe work practices.
8. Contribute to a positive **safety culture** through proactive engagement and communication.
9. Apply principles of **incident investigation** to determine root causes and prevent recurrence.
10. Understand the role of **human factors** in offshore safety and risk management.
11. Implement strategies for **process safety management (PSM)** in offshore facilities.
12. Familiarize themselves with **offshore environmental regulations** and best practices.
13. Utilize **digital safety tools** and technologies for enhanced risk management.

Organizational Benefits

- Proactive safety measures and risk awareness minimize the occurrence of accidents, injuries, and fatalities.
- A safe working environment reduces disruptions, downtime, and associated costs.
- Understanding and adhering to safety regulations avoids penalties and legal liabilities.
- Demonstrating a commitment to safety enhances the organization's image and builds trust.

- A strong safety record can lead to more favorable insurance rates.
- A safe and supportive work environment fosters a positive culture and reduces turnover.
- Trained personnel are equipped to make informed decisions regarding safety and risk.
- Understanding and implementing environmental regulations minimizes the risk of spills and pollution.

Target Audience

1. Offshore Installation Managers (OIMs)
2. Supervisors and Team Leaders
3. Safety Officers and Advisors
4. Drilling Personnel
5. Production Technicians and Engineers
6. Maintenance Personnel
7. Marine Crew and Operators
8. Health, Safety, and Environment (HSE) Professionals

Course Outline

Module 1: Introduction to Offshore Safety and Regulations

- Overview of the offshore energy industry and its unique safety challenges.
- Key international and regional **offshore safety regulations** and legal frameworks (e.g., IMO, OSHA, NORSOK).
- Understanding the roles and responsibilities of different stakeholders in offshore safety.
- Introduction to **safety management systems (SMS)** and their importance.
- Case Study: The Piper Alpha disaster and its impact on offshore safety regulations.

Module 2: Hazard Identification and Risk Assessment

- Principles of **hazard identification** techniques (e.g., HAZID, What-if analysis).
- Understanding different types of **offshore hazards**: process, mechanical, electrical, environmental.
- Methodologies for **risk assessment**: qualitative and quantitative approaches.
- Developing risk matrices and assigning risk levels.
- Case Study: A near-miss incident involving dropped objects on a drilling rig and its subsequent risk assessment.

Module 3: Risk Control and Mitigation Measures

- Hierarchy of controls: elimination, substitution, engineering controls, administrative controls, PPE.
- Implementing effective **risk mitigation strategies** for identified hazards.
- Developing and maintaining safe operating procedures (SOPs).
- The role of **permit-to-work systems** in controlling high-risk activities.
- Case Study: Implementation of engineering controls to prevent hydrocarbon leaks on a production platform.

Module 4: Emergency Preparedness and Response

- Developing comprehensive **emergency response plans (ERPs)** for various scenarios (e.g., fire, explosion, evacuation).
- Understanding the roles and responsibilities within the emergency response team.

- Emergency communication systems and procedures.
- Conducting emergency drills and exercises.
- Case Study: The successful evacuation of personnel during a severe weather event offshore.

Module 5: Safety Management Systems (SMS)

- Detailed review of the key elements of a **safety management system (SMS)** (e.g., policy, planning, implementation, monitoring, review).
- Implementing and maintaining an effective SMS.
- Auditing and continuous improvement of the SMS.
- Integrating safety into all aspects of offshore operations.
- Case Study: A company's journey in implementing and achieving certification for an internationally recognized SMS standard.

Module 6: Incident Investigation and Analysis

- Principles of effective **incident investigation**.
- Techniques for gathering and analyzing incident data.
- Identifying root causes and contributing factors.
- Developing and implementing corrective and preventive actions (CAPA).
- Case Study: A thorough investigation of a major equipment failure and the lessons learned to prevent recurrence.

Module 7: Human Factors in Offshore Safety

- Understanding the impact of **human factors** on safety performance (e.g., fatigue, communication, decision-making).
- Strategies for mitigating human error in offshore operations.
- Promoting a culture of safety awareness and reporting.
- Effective teamwork and communication in safety-critical situations.
- Case Study: An analysis of an incident where communication breakdown contributed to a safety breach.

Module 8: Process Safety Management (PSM) and Environmental Considerations

- Key elements of **process safety management (PSM)** in offshore facilities.
- Managing the risks associated with hazardous substances and processes.
- Overview of **offshore environmental regulations** and best practices.
- Pollution prevention and control measures.
- Case Study: Implementation of a PSM program to prevent major process-related incidents on an offshore platform.

Training Methodology

This training course will utilize a blended learning approach incorporating:

- Interactive lectures and presentations
- Group discussions and exercises
- Real-world **case studies** analysis
- Practical simulations and scenarios
- Video presentations and multimedia resources

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com