COURSE OVERVIEW HE1958
Environmental Safety Management

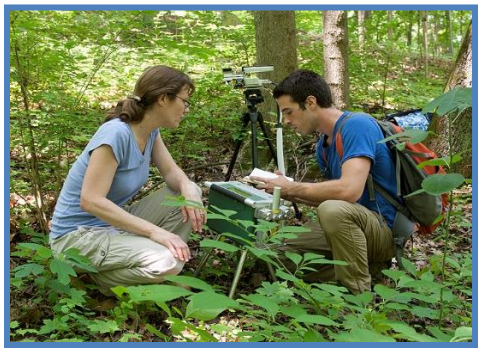
Course Title
Environmental Safety Management

Course Date/Venue
February 02-06, 2025/Camden 2 Meeting Room, London Marriott Hotel Regents Park, London, United Kingdom

Course Reference
HE1958

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Environmental Safety Management. It covers the importance of environmental safety in oil and gas operations including the regulatory requirements and best practices; the local and international environmental laws and regulations and specific environmental compliance standards; the principles and processes of environmental impact assessments (EIA) and its application in oil and gas projects; the key components of EMS (ISO 14001 framework); the benefits of implementing EMS in oil and gas; the environmental hazards in oil and gas exploration and production; and conducting risk assessments for environmental safety.

Further, the course will also discuss the emergency response plans for oil spills and leaks; the role of environmental emergency teams; the major air pollutants in oil and gas operations and the techniques for controlling emissions; handling oil spills and wastewater treatment and best practices for water conservation and reuse in oil fields; the causes and impact of soil contamination in oil operations and remediation techniques for contaminated soil; the types of waste generated in oil and gas production and safe disposal and recycling practices; handling, storing, and disposing hazardous materials in a safety manner; and the regulatory requirements for hazardous waste management.

During this interactive course, participants will learn the techniques for preventing oil spills and containment and recovery strategies in case of a spill; designing and implementing environmental monitoring systems; monitoring air, water, and soil quality in oil and gas operations; collecting and interpreting environmental data and compliance with regulatory reporting requirements; the environmental audits and non-compliances; the environmental sustainability reporting, stakeholder engagement and transparency in reporting; the environmental incident investigation techniques, root cause analysis and corrective action plans; the resource efficiency and optimization and managing water, energy, and other resources sustainably; the climate change, carbon management and renewable energy integration in oil and gas; the biodiversity management, environmental risk assessment tools, methodologies and risk mitigation strategies in oil production; the green procurement, sustainable supply chain strategies and life cycle assessments in the oil and gas supply chain; the technological innovations in environmental safety and environmental safety leadership and culture; the best practices in environmental safety management, corporate social responsibility (CSR) and environmental stewardship; and the emerging global trends in environmental regulations and preparing for stricter environmental compliance in oil and gas.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply ang gain an in-depth knowledge on environmental safety management
- Discuss the importance of environmental safety in oil and gas operations including the regulatory requirements and best practices
- Review local and international environmental laws and regulations and the specific environmental compliance standards
- Recognize the principles and processes of environmental impact assessments (EIA) and its application in oil and gas projects
- Identify the key components of EMS (ISO 14001 framework) as well as the benefits of implementing EMS in oil and gas
- Discuss environmental hazards in oil and gas exploration and production and conduct risk assessments for environmental safety
- Develop emergency response plans for oil spills and leaks and discuss the role of environmental emergency teams
- Discuss the major air pollutants in oil and gas operations and the techniques for controlling emissions
- Handle oil spills and wastewater treatment and apply best practices for water conservation and reuse in oil fields
- Determine the causes and impact of soil contamination in oil operations and remediation techniques for contaminated soil
- Identify the types of waste generated in oil and gas production and safe disposal and recycling practices

- Handle, store, and dispose hazardous materials in a safety manner as well as identify the regulatory requirements for hazardous waste management
- Apply techniques for preventing oil spills and containment and recovery strategies in case of a spill
- Design and implement environmental monitoring systems as well as monitor air, water, and soil quality in oil and gas operations
- Collect and interpret environmental data and explain compliance with regulatory reporting requirements
- Conduct environmental audits and identify and correct non-compliances
- Develop and track environmental KPIs and use KPIs to improve environmental performance
- Apply best practices for environmental sustainability reporting, stakeholder engagement and transparency in reporting
- Carryout environmental incident investigation techniques and root cause analysis and corrective action plans
- Apply resource efficiency and optimization and manage water, energy, and other resources sustainably
- Recognize the climate change and apply carbon management and renewable energy integration in oil and gas
- Identify and protect sensitive ecosystems and apply best practices for biodiversity management
- Employ environmental risk assessment tools and methodologies and risk mitigation strategies in oil production
- Carryout green procurement and sustainable supply chain strategies and life cycle assessments in the oil and gas supply chain
- Explain the technological innovations in environmental safety and environmental safety leadership and culture
- Apply best practices in environmental safety management, corporate social responsibility (CSR) and environmental stewardship
- Discuss the emerging global trends in environmental regulations and prepare for stricter environmental compliance in oil and gas

Who Should Attend

This course provides an overview of all significant aspects and considerations of environmental safety management for environment engineers, safety engineers & supervisors, environment protection team members, HSE personnel and other technical staff.

Course Fee

US$ 8,800 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Mr. Eric Matthews is a **Senior SHEQ Consultant** with over **35 years** of industrial experience within **Oil**, **Gas** and **Power** industries. His expertise includes **Environmental Management System**, **ISO 14001**, **ISO 9001**, **OHSAS 18001**, **CSR & Sustainability** Principles, **Sustainability & Environmental** Awareness, **Environmental** Management, **Environmental Pollution**, **Environmental** Emergency Plan, **Environmental** Management, **Environmental** Impact & Life Cycle Assessments **Safety Management System**, **Industrial Hygiene**, **Construction Safety** (**STOP**), **Process Safety Management** (**PSM**), **HAZOP & HAZID**, **HAZMAT & HAZCOM** Storage & Disposal, As Low as Reasonably Practicable (**ALARP**), Process Hazard Analysis (**PHA**), **Risk Management**, **Risk Assessment**, **OSHA**, **SHEQ**, **Industrial Hygiene**, **Confined Space Entry**, **Fall Protection**, **Work Permit & First Aid**, **Forklift Operations**, **Accident & Incident Prevention**, **Site Inspection**, **HSE** Leadership, **Safety Attitude** and **Industrial Plant Safety** as well as Pneumatic, Control Systems and Logic Boards. Moreover, his experience includes Quality Management System (**QMS**), Change Management, Project Management, Contract Management, Business Management, Time Management, Performance Management, Supervisory & Management Skills, Coaching & Mentoring and Strategic Decision Making. He was the **Managing Director** of **Ken Matthews & Associates Training Consultancy**. Further, he is a **Registered** and **Certified Trainer**, **Assessor**, **Moderator**, **Verifier** and **Program Designer & Developer** as well as an **Authorized Accreditation Advisor**.

During Mr. Matthews' career life, he has shared his knowledge and practical expertise through the continuous and numerous trainings internationally. He started his profession from various challenging positions such as the **Tool Maker**, **Mechanical Technician**, **Sea Going Engineer**, **Safety Officer**, **Senior Lecturer/Professor**, **College Mentorship Programme Head**, **Mechanical Engineering Curriculum Designer**, **Learning Material Developer**, **Trainer & Assessor**.

Mr. Matthews has **Bachelor's** degree in **Industrial & Organizational Psychology** with **Honours** (**Cum Laude**). Further, he is a **Certified Instructor/Trainer**; a **Certified Trainer/Assessor** by the **City & Guilds of London Institute**; a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**); a **Registered SETA Assessor/Moderator/Skills Coach** and an active member of the British Institute of Works Managers and British Institute of Personnel Managers and delivered innumerable trainings, courses, seminars and workshops worldwide

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 02nd of February 2025

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Overview of Environmental Safety in Oil & Gas Industry*** *Importance of Environmental Safety in Oil & Gas Operations • Regulatory Requirements & Best Practices*
0930 – 0945	*Break*
0945 – 1030	***Environmental Legislation & Compliance*** *Local & International Environmental Laws & Regulations • Specific Environmental Compliance Standards*
1030 – 1130	***Understanding Environmental Impact Assessments (EIA)*** *Principles & Processes of EIA • Application of EIAs in Oil & Gas Projects*
1130 – 1215	***Basics of Environmental Management Systems (EMS)*** *Key Components of EMS (ISO 14001 Framework) • Benefits of Implementing EMS in Oil & Gas*
1215 – 1230	*Break*
1230 – 1330	***Hazard Identification & Risk Assessment in Oil & Gas*** *Environmental Hazards in Oil & Gas Exploration & Production • Conducting Risk Assessments for Environmental Safety*
1330 – 1420	***Emergency Preparedness for Environmental Incidents*** *Developing Emergency Response Plans for Oil Spills & Leaks • Role of Environmental Emergency Teams*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: Monday, 03rd of February 2025

0730 – 0830	***Air Quality Management & Emission Control*** *Major Air Pollutants in Oil & Gas Operations • Techniques for Controlling Emissions (Flaring, Venting, Etc.)*
0830 – 0930	***Water Pollution Control & Management*** *Handling Oil Spills & Wastewater Treatment • Best Practices for Water Conservation & Reuse in Oil Fields*
0930 – 0945	*Break*
0945 – 1100	***Soil Contamination & Remediation*** *Causes & Impact of Soil Contamination in Oil Operations • Remediation Techniques for Contaminated Soil*
1100 – 1215	***Waste Management in Oil & Gas Operations*** *Types of Waste Generated in Oil & Gas Production • Safe Disposal & Recycling Practices*
1215 – 1230	*Break*
1230 – 1330	***Hazardous Materials Management*** *Handling, Storing, & Disposing of Hazardous Materials • Regulatory Requirements for Hazardous Waste Management*
1330 – 1420	***Spill Prevention & Control Measures*** *Techniques for Preventing Oil Spills • Containment & Recovery Strategies in Case of a Spill*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: Tuesday, 04th of February 2025

0730 – 0830	***Environmental Monitoring Programs*** *Designing & Implementing Environmental Monitoring Systems • Monitoring Air, Water, & Soil Quality in Oil & Gas Operations*
0830 – 0930	***Data Collection & Environmental Reporting*** *Collecting & Interpreting Environmental Data • Compliance with Regulatory Reporting Requirements*
0930 – 0945	*Break*
0945 – 1100	***Environmental Audits & Inspections*** *Conducting Environmental Audits (Internal & External) • Identifying & Correcting Non-Compliances*
1100 – 1215	***Key Performance Indicators (KPIs) for Environmental Safety*** *Developing & Tracking Environmental KPIs • Use of KPIs to Improve Environmental Performance*
1215 – 1230	*Break*
1230 – 1330	***Sustainability Reporting in Oil & Gas*** *Best Practices for Environmental Sustainability Reporting • Stakeholder Engagement & Transparency in Reporting*
1330 – 1420	***Incident Investigation & Root Cause Analysis*** *Environmental Incident Investigation Techniques • Root Cause Analysis & Corrective Action Plans*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 05th of February 2025

0730 – 0830	***Sustainable Resource Management in Oil Production*** *Resource Efficiency & Optimization • Managing Water, Energy, & Other Resources Sustainably*
0830 – 0930	***Climate Change & Carbon Management*** *Understanding Climate Change Risks for Oil & Gas • Carbon Footprint Measurement & Reduction Strategies*
0930 – 0945	*Break*
0945 – 1100	***Renewable Energy Integration in Oil & Gas*** *Opportunities for Integrating Renewable Energy in Oil Operations • Case Studies of Hybrid Oil-Renewable Energy Projects*
1100 – 1215	***Biodiversity Conservation in Oil & Gas Operations*** *Identifying & Protecting Sensitive Ecosystems • Best Practices for Biodiversity Management*
1215 – 1230	*Break*
1230 – 1330	***Environmental Risk Management & Mitigation*** *Environmental Risk Assessment Tools & Methodologies • Risk Mitigation Strategies in Oil Production*
1330 – 1420	***Sustainable Supply Chain Practices*** *Green Procurement & Sustainable Supply Chain Strategies • Life Cycle Assessments in the Oil & Gas Supply Chain*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5: Thursday, 06th of February 2025

0730 – 0830	***Technological Innovations in Environmental Safety*** *Role of Technology in Enhancing Environmental Safety (Remote Monitoring, Drones, etc.) • Innovations in Pollution Control & Waste Management*
0830 – 0930	***Environmental Safety Leadership & Culture*** *Building a Culture of Environmental Safety in Oil Operations • Leadership's Role in Fostering Environmental Responsibility*
0930 – 0945	*Break*
0945 – 1100	***Best Practices in Environmental Safety Management*** *Case Studies of Leading Oil & Gas Companies • Lessons Learned from Environmental Incidents*
1100 – 1230	***Corporate Social Responsibility (CSR) & Environmental Stewardship*** *Integrating CSR With Environmental Management • Community Engagement & Sustainable Development Goals (SDGs)*
1230 – 1245	*Break*
1245 – 1300	***Future Trends in Environmental Regulations & Compliance*** *Emerging Global Trends in Environmental Regulations • Preparing for Stricter Environmental Compliance in Oil & Gas*
1300 - 1345	***Developing an Environmental Safety Action Plan*** *Participants Develop an Action Plan to Implement at their Facilities • Group Presentations & Feedback*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org