COURSE OVERVIEW HE1096
Emergency Performance Review (E-Learning Module)

Course Title
Emergency Performance Review
(E-Learning Module)

Course Reference
HE1096

Course Format & Compatibility
SCORM 1.2. Compatible with IE11, MS-Edge, Google Chrome, Windows, Linux, Unix, Android, IOS, iPadOS, macOS, iPhone, iPad & HarmonyOS (Huawei)

Course Duration
30 online contact hours
(3.0 CEUs/30 PDHs

Course Description

This E-Learning course is designed to provide participants with a detailed and up-to-date overview of emergency performance review. It covers the dangers and the biggest risks of the oil and gas industry; the risks faced by the oil and gas industry covering financial risks, strategic risks, operational risks and compliance issues; the quantitative oil and gas risk assessment, discounted cash-flow method, sensitivity and scenario analysis and quantitative risk analysis; and the advantages of risk analysis, credible accident scenarios, HAZOP study and accident event.

Further, the course will also discuss the fire explosion and toxicity index (FEI & TI) analysis, consequence analysis, instantaneous release, semi-continuous outflow, gas outflow, vapor outflow, pressurized liquefied gas outflow and liquid outflow; the model for evaporation, dispersion, heavy gas dispersion, heat load and shock waves; the emergency organization (ERDMP), Chief Incident Controller (CIC) and Site Incident Controller (SIC) including their responsibilities; and the responsibilities of administration and communication coordinator, fire and safety coordinator, support and auxiliary services and security coordinator.

During this interactive course, participants will learn the ERDMP records maintenance and communications; the responsibilities of various stakeholders and the role of civil society and private sector; the guidelines for filling the incident report; the action after reporting of incident, termination activities, termination of emergency and emergency response procedures; the manmade disasters, local disasters, industrial and technological disasters; the security threat plan and emergency action in case of bomb threat; the emergency control centre (ECC) and flow of information using siren codes and assembly points; the -site and off-site emergencies for minor emergency incidents, major emergency incidents and disaster incidents; the emergency action plan for emergency during off-shift hours; and the fire and vapour cloud explosion/emergency.

Course Objectives

After completing the course, the employee will:-

- Apply systematic techniques on emergency performance
- Understand the overview of the various local and international emergencies and crisis situations in the Oil & Gas industry
- Understanding the company procedures, protocols and various stakeholders involved in Emergency response and Crisis situations
- Understand the emergency performance review and apply performance review techniques used for emergency response and disaster recovery effectiveness
- Report findings and lessons learnt post the event
- Define the terms and definitions that covers act, board, boiling liquid expanding vapour explosion (BLEVE), chief incident controller and etc.
- Identify the dangers and the biggest risks of the oil and gas industry
- Recognize the risks faced by the oil and gas industry covering financial risks, strategic risks, operational risks and compliance issues
- Employ quantitative oil and gas risk assessment, discounted cash-flow method, sensitivity and scenario analysis and quantitative risk analysis
- Identify the advantages of risk analysis, credible accident scenarios, HAZOP study and accident event
- Carryout fire explosion and toxicity index (FEI & TI) analysis, consequence analysis, instantaneous release, semi-continuous outflow, gas outflow, vapor outflow, pressurized liquefied gas outflow and liquid outflow
- Illustrate the model for evaporation, dispersion, heavy gas dispersion, heat load and shock waves
- Discuss emergency organization (ERDMP), Chief Incident Controller (CIC) and Site Incident Controller (SIC) including their responsibilities
- Recognize the responsibilities of administration and communication coordinator, fire and safety coordinator, support and auxiliary services and security coordinator
- Maintain ERDMP records and coordinate communications responsibly

- Identify the responsibilities of various stakeholders and the role of civil society and private sector
- Apply the guidelines for filling the incident report as well as the action after reporting of incident, termination activities, termination of emergency and emergency response procedures
- Identify manmade disasters, local disasters, industrial and technological disasters, Bhopal Gas Tragedy (BGT) and Jaipur oil depot fire
- Develop security threat plan and emergency action in case of bomb threat
- Establish emergency control centre (ECC) and flow of information using siren codes and assembly points
- Declare on-site and off-site emergencies for minor emergency incidents, major emergency incidents and disaster incidents
- Develop an emergency action plan for emergency during off-shift hours as well as fire and vapour cloud explosion/emergency

Who Should Attend

This course provides an overview of all significant aspects and considerations of emergency performance review for those who have emergency response management duties or are members of an emergency response team. Further, this course is beneficial for managers, emergency response personnel, team leaders, engineering level staff, installation managers and their deputies, production and drilling engineers, marine supervisors, emergency command centre personnel, central control room operators, radio operators and emergency coordination room (ECR) personnel who support operations or who wish to understand how emergencies can be managed.

Training Methodology

This Trainee-centered course includes the following training methodologies:-

- Talking presentation Slides (ppt with audio)
- Simulation & Animation
- Exercises
- Videos
- Case Studies
- Gamification (learning through games)
- Quizzes, Pre-test & Post-test

Every section/module of the course ends up with a Quiz which must be passed by the trainee in order to move to the next section/module. A Post-test at the end of the course must be passed in order to get the online accredited certificate.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- USA International Association for Continuing Education and Training (IACET)

  Haward Technology is an Authorized Training Provider by the International Association 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 1-2013 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 1-2013 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 Association 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 Fee

As per proposal

Course Contents

- Terms & Definitions
- Act
- Board
- Boiling Liquid Expanding Vapour Explosion (BLEVE)
- Chief Incident Controller
- Codes of Practice
- Disaster
- Disaster Management Plan
- Emergency
- Emergency Response Vehicle (ERV)
- Hazard
- Incident
- Incident record register
- Installation
- Leak
- Mutual Aid Association
- Occupier
- Off-site Emergency
- Off-site Emergency Plan
- On site emergency
- On site Emergency Plan
- Risk
- Risk Analysis
- Risk Assessment
- Site Incident Controller
- Spill
- Transport Emergency (TREM) Card
- Unconfined Vapour Cloud Explosion (UVCE)
- The Dangers of the Oil and Gas Industry
- Five of the Biggest Risks in the Oil and Gas Industry
- Laws & Regulations

- Geological
- Terrorism
- Cost
- Supply & Demand
- Risks Faced by the Oil and Gas Industry
- Financial Risks
- Strategic Risks
- Operational Risks
- Compliance Issues
- Quantitative Oil and Gas Risk Assessment
- Discounted Cash Flow
- Sensitivity and Scenario Analyses
- Quantitative Risk Analysis
- Advantages of Risk Analysis
- Credible Accident Scenarios
- HAZOP Study
- Fire Explosion & Toxicity Index (FEI & TI) Analysis
- Identification of Accident Event
- Consequence Analysis
- Instantaneous Release
- Semi-Continuous Outflow
- Gas Outflow
- Vapor Outflow
- Pressurized Liquefied Gas Outflow
- Liquid Outflow
- Model for Evaporation
- Model for Dispersion
- Heavy Gas Dispersion Model
- Model for Heat Load and Shock Waves
- Emergency Organization (ERDMP)
- Chief Incident Controller (CIC)
- Responsibilities of CIC
- Site Incident Controller (SIC)

- Responsibilities of SIC
- Responsibilities of Administration and Communication Coordinator
- Responsibilities of the Fire and Safety Coordinator
- Support and Auxiliary Services
- Security Coordinator
- Maintenance of ERDMP Records
- Communications Coordinator Responsibility
- Roles and Responsibilities of Various Stakeholders
- The Police
- The Fire Services
- In a Chemical Emergency
- The Role of Civil Society and Private sector
- The Health Department
- Pollution Control Boards
- The NDRF and SDRF
- Reporting of the Incident
- Guidelines for Filling the Incident Report
- Action After Reporting of Incident
- Termination Activities
- Termination of Emergency
- Emergency Recovery Procedures
- Manmade Disasters
- Local disasters
- Industrial and Technological Disasters
- Bhopal Gas Tragedy (BGT)
- Jaipur Oil Depot Fire
- Security Threat Plan
- Emergency Action in Case of Bomb Threat
- Emergency Control Centre
- Flow of Information
- Siren Codes
- Emergency Control Centre (ECC)
- Assembly Points

- Declaration of On-Site & Off-Site Emergencies
- Level 1: Minor Emergency Incidents
- Level 2: Major Emergency Incidents
- Level 3: Disaster Incidents
- Emergency Action Plan for Emergency during Off- Shift Hours
- Fire/Vapour Cloud Explosion/Emergency