COURSE OVERVIEW HE1911

Basic Firefighting

Course Title
Fire Fighter Level 1

Course Date/Venue
Session 1: January 12-16, 2025/Oryx Meeting Room, Double Tree by Hilton Al Saad, Doha, Qatar
Session 2: July 20-24, 2025/Oryx Meeting Room, Double Tree by Hilton Al Saad, Doha, Qatar

Course Reference
HE1911

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 Fire Fighter Level 1. It covers the safety protocols and chemistry of fire including fire triangle, classifications of fire and combustion processes; the specific types of fire in refineries and other process plants, the basic firefighting equipment including hoses, extinguishers and PPE; the refinery's emergency communication protocols and systems; the personal protective equipment (PPE) and portable fire extinguishers; and the techniques for deploying, handling and maneuvering hoses and ladder and ground support operations.

During this interactive course, participants will learn the ventilation techniques to control and extinguish fires and foam firefighting applications; extinguishing techniques, breathing apparatus usage and search and rescue operations techniques; the fire pattern recognition, work in teams and risk assessment and management during firefighting operations; the command system (ICS), hazardous materials awareness, first aid and casualty care; the fire prevention, routine inspection and maintenance protocols; the actions taken during drills for learning and improvement and engage in live fire exercise under controlled conditions; the advanced techniques in a live setting; and the emergency evacuation protocols and muster point management.

Course Objectives

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

- Apply and gain a good working knowledge on fire fighting
- Discuss the safety protocols and chemistry of fire including fire triangle, classifications of fire and combustion processes
- Recognize the specific types of fire in refineries and other process plants as well as the basic firefighting equipment including hoses, extinguishers and PPE
- Discuss the refinery's emergency communication protocols and systems
- Identify the personal protective equipment (PPE) and portable fire extinguishers
- Carryout techniques for deploying, handling and maneuvering hoses and ladder and ground support operations
- Apply ventilation techniques to control and extinguish fires as well as implement foam firefighting applications
- Employ extinguishing techniques, breathing apparatus usage and search and rescue operations techniques
- Illustrate fire pattern recognition, work in teams and apply risk assessment and management during firefighting operations
- Recognize the command system (ICS), hazardous materials awareness, first aid and casualty care
- Apply fire prevention, routine inspection and maintenance protocols
- Analyze actions taken during drills for learning and improvement and engage in live fire exercise under controlled conditions
- Implement advanced techniques in a live setting and apply emergency evacuation protocols and muster point management

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides a basic overview of all significant aspects and considerations of fire fighter level I for firemen, fire coordinators, fire officers, HSE staff and those interested to be certified as fire instructors.

Accommodation

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

Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-

(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course

Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-23

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE1911	Fire Fighter Level 1	November 10-14, 2023	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Jaryl Castillo
Academic Director

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

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

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 Fee

US$ 6,000 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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. Raymond Tegman is a **Senior HSE Consultant** with extensive experience within the **Oil & Gas**, **Petrochemical** and **Refinery** industries. His broad expertise widely covers in the areas of **Rigging** Safety Rules, Machinery & Hydraulic **Lifting Equipment**, Handling **Hazardous Chemicals**, Spill Containment, **Fire** Protection, **Fire** Precautions, **Incidents & Accidents** Reporting, **HSEQ** Audits & Inspection, **HSEQ** Procedures, **Environmental** Awareness, **Waste** Management Monitoring, **Emergency Planning**, **Emergency** Management, **Working at Heights**, **Root Cause Analysis**, **HSE** Rules & Regulations, Process Safety Management (**PSM**), Process Hazard Analysis (**PHA**), Techniques, **HAZOP**, **HSE** Risk, **Pre-Start-up Safety** Reviews, **HSE Risk** Identification, Assessments & Audit, **HSE Risk** Assessment & Management Concepts, **HSE Management** Policy & Standards, **HSSE Emergency Response & Crisis Management** Operations, **Confined Space Entry**, **Quantitative Risk Assessment** (**QRA**), Hazardous Materials & Chemicals Handling, Safety Precaution & Response Action Plan, **Hazard & Risk** Assessment, Task Risk Assessment (**TRA**), **Incident Command**, **Accident & Incident Investigation**, **Emergency Response Procedures**, Job Safety Analysis (**JSA**), Behavioural Based Safety (**BBS**), **Fall Protection**, **Work Permit & First Aid**, Lock-out/Tag-out (**LOTO**), **Emergency Response**, **Construction** Supervision, **Scaffolding** Inspection, **HAZCHEM**, Manual Material Handling, **Road Traffic** Supervision, ISO 9001 and OHSAS 18001.

During his career life, Mr. Tegman has gained his practical and field experience through his various significant positions and dedication as the **Operations Manager**, **Safety & Maintenance Manager**, **Safety Manager**, **Road/Traffic Supervisor**, **Assessor/Moderator**, **Safety Consultant**, **Safety Advisor**, **Safety Officer** and **Liaison Officer** from Zero Harm, SHRA Training & Services (Health & Safety), Road Crete, Balwin Property Development, DEME International, Gladstone Australia, Godavari Gas Pipeline and New Castle NCIG.

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 course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Course Introduction & Safety Protocols**: Introduction to Course Objectives, Safety Briefings & an Overview of the Week's Agenda*
0930 – 0945	*Break*
0945 – 1100	***Basic Fire Science:** Understanding the Chemistry of Fire, Including the Fire Triangle, Classifications of Fire, And Combustion Processes*
1100 – 1230	***Types of Fires:** Identifying Specific Fire Types in Refineries & other Process Plants such as Liquid Hydrocarbons, Gases & Electrical Fires*
1230 – 1245	*Break*
1245 – 13456	***Firefighting Equipment**: Overview of Basic Firefighting Equipment Including Hoses, Extinguishers & PPE*
1345 - 1420	***Emergency Communication Systems:** Learning the Refinery's Emergency Communication Protocols & Systems*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 - 0830	***Personal Protective Equipment (PPE):** Detailed Training on the Use, Maintenance & Limitations of Firefighting Gear Specific to Refinery Hazards*
0830 - 0930	***Portable Fire Extinguishers:** Types & Uses of Extinguishers for Different Classes of Refinery Fires*
0930 – 0945	*Break*
0945 – 1100	***Hose Handling & Attack Techniques:** Techniques for Deploying, Handling & Maneuvering Hoses; Practical Drills Included*
1100 – 1230	***Ladder & Ground Support Operations** - Basic Ladder Operations & Techniques for Stabilizing Equipment on Uneven Ground*
1230 – 1245	*Break*
1245 -1320	***Ventilation Practices:** Understanding & Applying Ventilation Techniques to Control & Extinguish Fires*
1320 -1420	***Foam Firefighting Applications:** Specialized Training on Using Foam for Fires Involving Flammable Liquids*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 - 0830	***Extinguishing Techniques:** Employing Advanced Methods Like Indirect Attack & Gas Cooling*
0830 - 0930	***Breathing Apparatus Usage:** Training on the Selection, Use & Maintenance of Self-Contained Breathing Apparatus (SCBA)*
0930 – 0945	*Break*

0945 – 1100	***Search & Rescue Operations**: Techniques for Conducting Search & Rescue Under Fire Conditions, Focusing on Refinery-Specific Challenges*
1100 – 1230	***Fire Pattern Recognition**: Skills for Identifying & Interpreting Fire Spread Patterns in Industrial Settings*
1230 – 1245	*Break*
1245 -1320	***Working in Teams:** Exercises Focused on Teamwork, Communication & Coordinated Attack Strategies*
1320 -1420	***Safety & Risk Management:** In-Depth Discussion on Risk Assessment & Management During Firefighting Operations*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 - 0830	***Incident Command System (ICS):** Fundamentals of ICS Specific to Refinery Incidents, Roles & Responsibilities*
0830 - 0930	***Hazardous Materials Awareness:** Recognizing & Responding to Hazardous Material Threats in Refinery Operations*
0930 – 0945	*Break*
0945 – 1100	***First Aid & Casualty Care:** Basic First Aid & Casualty Management in Fire & Emergency Scenarios*
1100 – 1230	***Fire Prevention & Inspection**: Techniques for Fire Prevention, Including Routine Inspection & Maintenance Protocols*
1230 – 1245	*Break*
1245 -1320	***Simulated Drills: Emergency Scenarios:** Conducting Simulated Fire Emergency Drills in a Refinery Setting*
1320 -1420	***Debrief & Analysis:** Analyzing Actions Taken During Drills for Learning & Improvement*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 - 0930	***Review of Key Concepts:** Comprehensive Review of All Major Topics Covered During the Week*
0930 - 0945	*Break*
0945 – 1100	***Live Fire Drills:** Participants Engage in Live Fire Exercises Under Controlled Conditions to Apply their Skills*
1100 – 1215	***Advanced Fire Suppression Techniques:** Implementing Advanced Techniques in a Live Setting such as Elevated Fire Attacks*
1215 – 1230	*Break*
1230 – 1300	***Emergency Evacuation Procedures:** Practical Application of Emergency Evacuation Protocols & Muster Point Management*
1300 – 1315	***Course Conclusion***
1315 – 1415	***COMPETENCY EXAM***
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:-p

Course Coordinator

Reem Dergham, Tel: +974 4423 1327, Email: reem@haward.org