COURSE OVERVIEW HE0887
NFPA 1001

Course Title
NFPA 1001

Course Date/Venue
October 12-16, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
HE0887

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

Course Description

This practical and highly-interactive course includes practical sessions and demonstration where participants carryout firefighting. Theory learnt in the class will be applied using a fire extinguisher through hands-on practical sessions.

This course is designed to provide participants with a detailed and up-to-date overview of NFPA 1001. It covers the roles and responsibilities of a firefighter; the fire department structure and functions, firefighter personal protective equipment (PPE) and fire station policies and procedures; the elements of fire (fire triangle and tetrahedron), phases of fire development, heat transfer methods and types of fire and classifications; the personal protective equipment (PPE), hazardous conditions in firefighting and types of fire department communication systems; and the fire service tools and equipment including types of fire service ladders and their uses.

Further, the course will also discuss the types of fire hoses, hose lays and hydrant operations, nozzles and water stream management and hose loading, advancing, and rolling techniques; the ventilation techniques, searching and rescuing techniques and firefighter survival and self-rescue; the fire suppression tactics, classifications of fire and extinguishing agents, firefighter rehabilitation and medical monitoring; and the NFPA 704 labeling system, hazardous materials incidents, protective actions and isolation zones and emergency decontamination procedures.

During this interactive course, participants will learn the fire prevention and inspections, smoke detector placement and maintenance and public fire education campaigns; the wildland fire behavior and fuel types, fireline construction and hand tools, wildland PPE and safety considerations and water sources and suppression techniques; the advanced fire suppression techniques, tactical ventilation in structural fires, technical rescue operations and incident command system (ICS) in firefighting; the firefighter health, safety, and wellness, post-incident reporting and documentation, safe exit strategies and emergency procedures; and the SCBA proficiency and emergency procedures, search and rescue final evaluation and firefighter physical agility test.

Course Objectives

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

- Apply and gain a comprehensive knowledge on fire fighter professional qualifications in accordance with NFPA 1001
- Discuss the purpose and scope of NFPA 1001 and the roles and responsibilities of a firefighter
- Identify fire department structure and functions, firefighter personal protective equipment (PPE) and fire station policies and procedures
- Recognize the elements of fire (fire triangle and tetrahedron), phases of fire development, heat transfer methods and types of fire and classifications
- Use personal protective equipment (PPE) and identify hazardous conditions in firefighting and types of fire department communication systems
- Describe fire service tools and equipment including types of fire service ladders and their uses
- Identify the types of fire hoses and apply hose lays and hydrant operations, nozzles and water stream management and hose loading, advancing, and rolling techniques
- Carryout ventilation techniques, search and rescue techniques and firefighter survival and self-rescue
- Apply fire suppression tactics, classifications of fire and extinguishing agents, firefighter rehabilitation and medical monitoring
- Recognize NFPA 704 labeling system, hazardous materials incidents, protective actions and isolation zones and emergency decontamination procedures
- Carryout fire prevention and inspections, smoke detector placement and maintenance and public fire education campaigns
- Discuss wildland fire behavior and fuel types, fireline construction and hand tools, wildland PPE and safety considerations and water sources and suppression techniques
- Employ advanced fire suppression techniques, tactical ventilation in structural fires, technical rescue operations and incident command system (ICS) in firefighting
- Apply firefighter health, safety, and wellness, post-incident reporting and documentation, safe exit strategies and emergency procedures
- Carryout SCBA proficiency and emergency procedures, search and rescue final evaluation and firefighter physical agility test

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 an overview of all significant aspects and considerations of NFPA 1001 for firefighters, fire service personnels, emergency responders, volunteer firefighters and industrial firefighters.

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 Fee

US$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

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

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: -

- 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.

- 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.

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. Ashraf Mohamed is a **Senior HSE Consultant & Radiation Protection Expert** with **35 years** of practical and industrial experience within the **Oil & Gas**, **Refinery** and **Petrochemical** industry. He is a **NEBOSH Approved Instructor** for various certification programs. His expertise lies extensively in the areas of **Radiation** Safety & Protection, **Radioactive Waste** Management, **Radiation Protection** Instrumentation, **Nuclear & Radiological** Safety, **Radiation Protection** Design, **Radioactive Sources** Protection, **Radioisotopes & Protection** Application, **Ionizing Radiation**, **NEBOSH** Fire Safety & Risk Management International Certificate, **NEBOSH** International General Certificate, **NEBOSH** Health & Safety Leadership Excellence, **Firefighting** Techniques, **Fire** & **Gas** Detection System, **Fire Fighter & Fire** Rescue, **Fire Risk** Assessment, **HSE** Policy & Strategy, **HSEMS** Development & Implementation, **Risk** Assessment & Management, **HSE Performance** Measurement & Monitoring Systems, **HSE & Fire** Inspection, **HAZOP & HAZID**, **HAZMAT & HAZCOM**, As Low as Reasonably Practicable (**ALARP**), Process Hazard Analysis (**PHA**), Process Safety Management (**PSM**), **Accident/Incident** Investigation, **Risk** Management, **Hazard & Effect** Management Process, **ALARP** System, **Isotopes** Application & Protection, Safety Induction, **PTW**, **Gas Testing**, **Lock Out/Tag Out**, **Confined Space**, **H_2S**, **Working at Heights**, **Lifting** Operations, **Scaffolding**, **Rigging & Slinging**, **Incidents** Investigations, **First Aid & CPR**, **Crane** Inspection, **Risk** Evaluation, **Emergency Response** Plan, **Defensive Driving**, Safety Supervision, **Environment Management** System, **Environmental Impact & Life Cycle Assessment**, **Pesticide** Assessment & Environemntal Control, **Behavioural Based Safety**, **Work Management** System and various international codes and standards such as the ISO 9001, OHSAS 18001 and ISO 14001. He is currently the **Acting Senior HSE Engineer** wherein he develops and manages the implementation of fire, safety and environment programs for all the employees and contractors.

During his career life, Mr. Ashraf has gained his practical and field experience through his various significant positions as the **Safety & Fire Manager**, **HSE Manager**, **Safety & Fire Instructor**, **Senior HSE & Fire Instructor**, **Safety Training Instructor**, **Safety Construction Manager** and **Safety Section Head** from various companies such as the ADNOC, Eprome, Foster Wheeler-MIDOR Refinery, Amyria Petroleum Refining Company and Egyptian Refinery Company.

Mr. Ashraf has a **Bachelor's** degree in **Geology**. Further, he is a **Certified Instructor/Trainer** and a member of Society of Petroleum Engineers and Egyptian Society for Safety. He is an **Approved Lead Tutor** in **NEBOSH Certificate in Fire Safety**, an **Approved Tutor** in **NEBOSH International General Certificate**, **NEBOSH Health & Safety Leadership Excellence**. He has further held various Radiation Certifications like the **Radiation Protection & Peaceful Uses** of **Radioactive Sources** and the **Applications** of **Radioisotopes & Protection** from **Ionizing Radiations** from the Egyptian Atomic Energy Authority and has delivered numerous courses, trainings, seminars, workshops and conferences globally.

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: Sunday, 12th of October 2025

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0900	***Overview of NFPA 1001 Standards*** *Purpose and Scope of NFPA 1001 • Certification Levels (Firefighter I & II) • Roles and Responsibilities of a Firefighter • Ethical and Professional Considerations*
0900 – 0930	***Fire Service Organization & Safety*** *Fire Department Structure and Functions • Firefighter Personal Protective Equipment (PPE) • Fire Station Policies and Procedures • Firefighter Health and Wellness Programs*
0930 – 0945	*Break*
0945 – 1145	***Fire Behavior & Combustion*** *Elements of Fire (Fire Triangle & Tetrahedron) • Phases of Fire Development • Heat Transfer Methods (Conduction, Convection, Radiation) • Types of Fire & Classification*
1145 – 1230	***Personal Protective Equipment (PPE)*** *Structural Firefighting Gear (Helmets, Gloves, Boots) • Self-Contained Breathing Apparatus (SCBA) • Donning and Doffing Procedures • PPE Maintenance & Inspection*
1230 – 1245	*Break*
1245 – 1330	***Hazardous Conditions in Firefighting*** *Flashover & Backdraft • Toxic Gases & Smoke Hazards • Structural Collapse Risks • Fireground Safety Procedures*
1330 – 1420	***Firefighting Communications*** *Types of Fire Department Communication Systems • Radio Procedures & Emergency Signals • Incident Command System (ICS) Communication • Effective Team Communication on the Fireground*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2: Monday, 13th of October 2025

0730 – 0830	***Fire Service Tools & Equipment*** *Hand Tools (Axes, Halligans, Pry Bars) • Power Tools (Chainsaws, Circular Saws) • Ropes and Knots for Firefighting • Equipment Maintenance and Care*
0830 – 0930	***Ladders & their Uses*** *Types of Fire Service Ladders • Ladder Carrying and Deployment Techniques • Ladder Placement and Safety • Victim Rescue Using Ladders*
0930 – 0945	*Break*
0945 – 1130	***Hose Operations & Water Supply*** *Types of Fire Hoses (Attack and Supply) • Hose Lays and Hydrant Operations • Nozzles and Water Stream Management • Hose Loading, Advancing, and Rolling Techniques*

1130 – 1230	***Ventilation Techniques*** *Purpose and Principles of Ventilation • Horizontal and Vertical Ventilation Methods • Use of Mechanical Ventilation (Fans, Blowers) • Risks and Benefits of Ventilation Operations*
1230 – 1245	*Break*
1245 – 1330	***Search & Rescue Techniques*** *Primary vs. Secondary Searches • Search Patterns and Firefighter Orientation • Victim Removal Techniques (Drags, Carries) • SCBA Emergency Procedures in Search and Rescue*
1330 – 1420	***Firefighter Survival & Self-Rescue*** *Mayday Procedures and RIT Teams • Emergency Escape Methods (Bailouts) • Wall Breaching and Entanglement Escape • Situational Awareness and Risk Assessment*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3: ***Tuesday, 14th of October 2025***

0730 – 0830	***Fire Suppression Tactics*** *Offensive vs. Defensive Firefighting • Direct and Indirect Attack Methods • Coordinated Fire Attack Strategies • Extinguishing Agents and Their Applications*
0830 – 0930	***Classifications of Fire & Extinguishing Agents*** *Class A, B, C, D, and K Fires • Water-Based Suppression Systems • Foam Applications for Flammable Liquids • Dry Chemical and CO2 Extinguishers*
0930 – 0945	*Break*
0945 – 1130	***Firefighter Rehabilitation & Medical Monitoring*** *Physical Stress and Firefighter Health Risks • Hydration and Nutrition Strategies • Rehabilitation Area Setup and Protocols • Medical Monitoring and Fitness for Duty*
1130 – 1230	***Hazardous Materials Awareness*** *NFPA 704 Labeling System • Identifying Hazardous Materials Incidents • Protective Actions and Isolation Zones • Emergency Decontamination Procedures*
1230 – 1245	*Break*
1245 – 1330	***Fire Prevention & Public Education*** *Fire Prevention Programs and Inspections • Common Fire Hazards in Residential & Industrial Settings • Smoke Detector Placement and Maintenance • Public Fire Education Campaigns*
1330 – 1420	***Wildland Firefighting Basics*** *Wildland Fire Behavior and Fuel Types • Fireline Construction and Hand Tools • Wildland PPE and Safety Considerations • Water Sources and Suppression Techniques*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 15th of October 2025

0730 – 0830	***Advanced Fire Suppression Techniques*** *High-Rise Firefighting Operations • Basement and Confined Space Fires • Vehicle and Aircraft Fire Suppression • Coordinating Multiple Suppression Teams*
0830 – 0930	***Tactical Ventilation in Structural Fires*** *Positive Pressure Ventilation (PPV) • Negative Pressure and Hydraulic Ventilation • Coordinating Ventilation with Fire Attack • Ventilation Safety Considerations*
0930 – 0945	*Break*
0945 – 1130	***Technical Rescue Operations*** *Vehicle Extrication Techniques • Trench and Structural Collapse Rescue • Rope Rescue Basics and Rappelling • Water and Ice Rescue Awareness*
1130 – 1230	***Incident Command System (ICS) in Firefighting*** *ICS Structure and Components • Fireground Command and Sectorization • Roles of Command Staff and Tactical Units • Mutual Aid and Resource Management*
1230 – 1245	*Break*
1245 – 1330	***Firefighter Health, Safety & Wellness*** *Behavioral Health Challenges in Firefighting • Stress Management and Peer Support • Physical Fitness Requirements and Injury Prevention • Firefighter Cancer Awareness and Prevention*
1330 – 1420	***Post-Incident Reporting & Documentation*** *Importance of Accurate Incident Reports • NFIRS (National Fire Incident Reporting System) • Report Writing and Documentation Best Practices • Legal and Ethical Considerations in Reporting*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5: Thursday, 16th of October 2025

0730 – 0930	***Live Fire Training & Suppression*** *Realistic Fire Scenarios and Fire Attack Drills • Coordinating Attack, Ventilation, and Rescue • Evaluating Fire Progression and Structural Integrity • Safe Exit Strategies and Emergency Procedures*
0930 – 0945	*Break*
0945 – 1100	***SCBA Proficiency & Emergency Procedures*** *SCBA Donning and Doffing Speed Drills • Air Conservation Techniques • Emergency Low-Air Situations • Lost Firefighter and Buddy System Protocols*
1100 – 1230	***Search & Rescue Final Evaluation*** *Conducting Primary and Secondary Searches • Simulated Smoke-Filled Environment Navigation • Victim Extrication in Confined Spaces • Team Communication and Coordination Assessment*
1230 – 1245	*Break*

1245 – 1345	***Firefighter Physical Agility Test*** *Hose Drag and Carry Simulation • Ladder Raise and Forcible Entry Task • Victim Drag and Stair Climb Endurance Test • Timed Completion and Assessment Criteria*
1345 - 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 - 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulators (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using fire extinguishers.

Fire Extinguisher

Course Coordinator

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