COURSE OVERVIEW HE1192
Certified Fire Protection Specialist
(NFPA-CFPS Exam Preparation Training)

Course Title
Certified Fire Protection Specialist *(NFPA-CFPS Exam Preparation Training)*

Course Date/Venue
October 21-25, 2024/Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
HE1192

Course Duration/Credits
Five days/4.0 CEUs/40 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 the fire protection. It covers the safety in the built environment; the basics of fire and fire science; the information and analysis for fire protection; the human behavior in fire emergencies; the fire prevention; the facility fire hazard management; the system approaches to property classes; organizing for fire and rescue services; the materials, products and environments; the detection and alarm; the water-based suppression; and confining fires.

During this interactive course, participants will learn to organize fire and rescue services and perform pre-incident planning for industrial and commercial facilities; identify materials, products and environment, the hazards including operational characteristics of the modern fire alarm systems and proper application of automatic fire detectors; recognize water-based suppression, evaluate need for water distribution systems and provide plans review for water-based systems; identify halogen and direct halogen replacement agents and systems; confine fires and build construction elements for fire protection; and identify fire hazards of construction, alteration and demolition of buildings.

Course Objectives

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

- Get prepared for the next NFPA exam and have enough knowledge and skills to pass such exam in order to get the Fire Protection Specialist certification
- Discuss safety in the built environment, as well as identify challenges to safety in the built environment, apply fundamentals of safe building design and identify the local and regional codes and standards
- Recognize the basics of fire and fire science, chemistry and physics of fire and dynamics of fire growth
- Carryout fire protection analysis, conduct fire loss investigation, collect and use fire incident data and statistics, conduct fire analysis and apply data and analysis
- Identify principles of human behavior and fire including the concepts of egress design and calculation methods for egress prediction
- Apply fire prevention and develop policies, procedures and training programs to inform and educate population in fire
- Carryout proper design, installation and maintenance of electrical systems and appliances
- Employ facility fire hazard management and gain knowledge of property fire insurance, building construction and/or field experience in performing fire/property surveys involving detailed analyses
- Carryout system approaches to property classes and assess life safety and fire protection
- Organize fire and rescue services and perform pre-incident planning for industrial and commercial facilities
- Identify materials, products and environment and understand the hazards including operational characteristics of the modern fire alarm systems and proper application of automatic fire detectors
- Recognize water-based suppression, evaluate need for water distribution systems and provide plans review for water-based systems
- Describe suppression without water and identify halogen and direct halogen replacement agents and systems
- Confine fires and build construction elements for fire protection and identify fire hazards of construction, alteration and demolition of buildings

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, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of fire protection specialist for all group of professionals including risk managers, loss control specialists, fire officers, fire marshals, fire inspectors, safety managers, fire protection consultants, designers, engineers, code enforcers, facility managers and for those who have responsibilities dealing with the application of fire safety, protection, prevention and suppression technologies.

Exam Eligibility & Structure

To be eligible to take the CFPS examination, candidates must demonstrate on the CFPS application that they meet one of the following criteria:-

- Bachelor's degree in engineering, technology, or other related discipline from an accredited college or university, plus two years of verifiable work experience dedicated to curtailing fire loss, both physical and financial. Copy of college diploma or transcript AND Resume are required.
- Associate's degree in engineering, technology or other related discipline from an accredited college or university, plus four years of verifiable work experience dedicated to curtailing fire loss, both physical and financial.
- High school diploma + 6 years of verifiable work experience dedicated to curtailing fire loss, both physical and financial.

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.

Exam Fee

US$ 550 per Delegate + **VAT**.

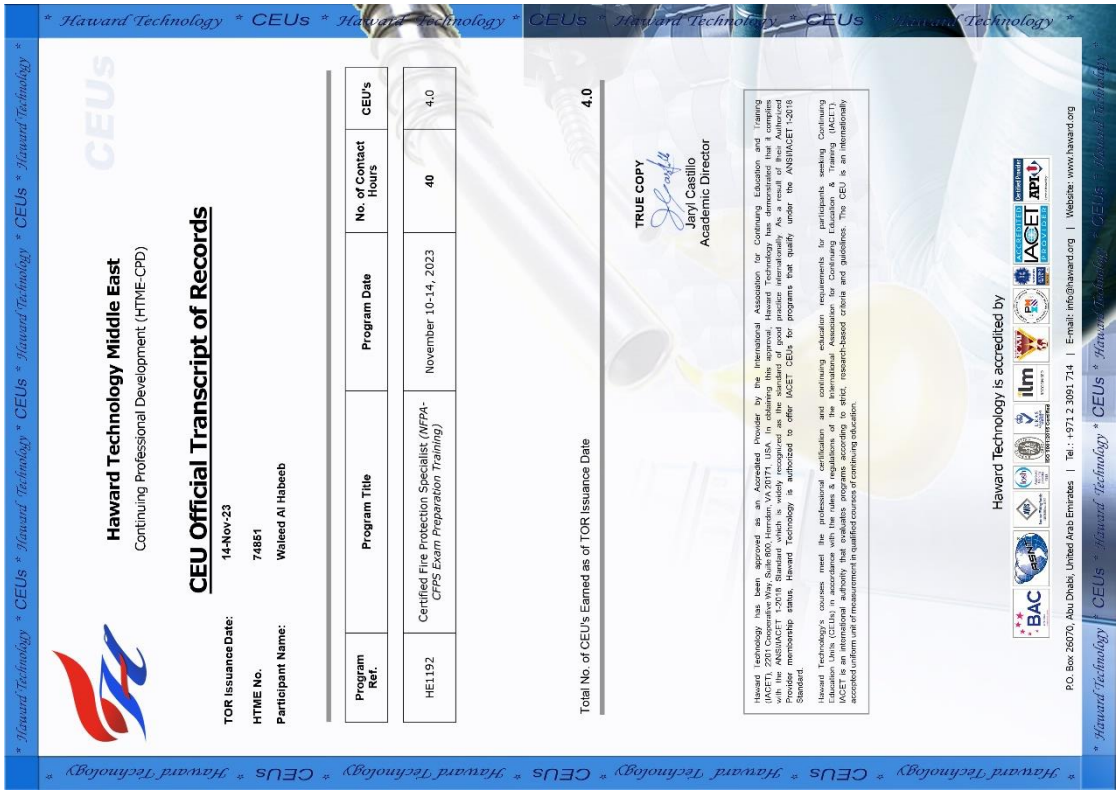
Accommodation

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

NFPA-CFPS Certificate(s)

(1) NFPA-CFPS certificates will be issued to participants who successfully passed the NFPA-CFPS exam.

(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
HE1192	Certified Fire Protection Specialist *(NFPA-CFPS Exam Preparation Training)*	November 10-14, 2023	40	4.0

Total No. of CEU's Earned as of TOR Issuance Date: 4.0

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). As an Authorized Provider, Haward Technology is responsible for developing, administering, validating and maintaining records for all IACET accredited courses in accordance with the ANSI/IACET 1-2018 Standard which is based on adult learning principles, research-based criteria and guidelines. The CEU is an internationally accredited 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

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 **4.0 CEUs** (Continuing Education Units) or **40 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. 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, **Environmental Impact Assessment**, **Sustainability & Environmental** Awareness, **Environmental** Management, **Environmental Pollution**, **Environmental** Emergency Plan, **Environmental** Management, **Firefighting** Techniques, **Fire** & **Gas** Detection System, **Fire Fighter & Fire** Rescue, **Fire Risk** Assessment, **HSE & Fire** Inspection, **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.

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: ***Monday, 21st of October 2024***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Safety in the Built Environment*** *Identify Challenges to Safety in the Built Environment ● Apply Fundamentals of Safe Building Design ● Be Familiar with the Local and Regional Codes and Standards for the Built Environment*
0930 – 0945	*Break*

0945 – 1200	***Basics of Fire & Fire Science*** *Identify the Chemistry and Physics of Fire ● Identify Dynamics of Fire Growth*
1200 – 1300	*Lunch*
1300 – 1530	***Information & Analysis for Fire Protection*** *Conduct Fire Loss Investigation ● Collect and Use Fire Incident Data and Statistics*
1530 – 1545	*Break*
1545 – 1650	***Information & Analysis for Fire Protection (cont'd)*** *Conduct Fire Analysis ● Apply Data and Analysis*
1650 - 1700	***Recap***
1700	*End of Day One*

Day 2: Tuesday, 22nd of October 2024

0730 – 0930	***Human Behavior in Fire Emergencies*** *Identify Principles of Human Behavior and Fire ● Identify Concepts of Egress Design ● Use Calculation Methods for Egress Prediction*
0930 – 0945	*Break*
0945 – 1200	***Fire Prevention*** *Develop Policies, Procedures and Training Programs to Inform and Educate Population in Fire Prevention Principles and Fire and Life Safety Practices ● Understand Proper Design, Installation and Maintenance of Electrical Systems and Appliances ● Identify the Components that, Alone or in Combination, Form Emergency and Standby Power Systems*
1200 – 1300	*Lunch*
1300 – 1530	***Fire Prevention (cont'd)*** *Understand the Dynamics of Heating Systems ● Identify Basic Components of and the Hazards Associated with 'Hot Work' and the Following Manufacturing Processes ● Practice Proper Storage and Handling Procedures ● Identify the Fire Hazards of Grinding Processes*
1530 – 1545	*Break*
1545 – 1650	***Fire Prevention (cont'd)*** *Identify Common Types of Refrigeration and Associated Hazards ● Identify the Unique Hazards of Semiconductor Manufacturing ● Identify Fire Prevention Housekeeping Basics ● Initiate and Track Corrective Action for Life Safety and Fire Protection Deficiencies and Coordinate Hazard Abatement Solutions with Building Managers, Physical Plant Personnel and Engineering Department ● Safety Control Systems*
1650 - 1700	***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*
1700	*End of Day Two*

Day 3: Wednesday, 23rd of October 2024

0730 – 0930	***Facility Fire Hazard Management*** *Possess Knowledge of Property Fire Insurance, Building Construction and/or Field Experience Performing Fire/Property Surveys Involving Detailed Analyses ● Be Able to Observe, Examine, Inspect, Gather Data and Describe All Aspects of a Property/Building and Business ● Conduct Complex Inspection Surveys of Commercial and Residential Properties to Evaluate Physical Characteristics of a Property and Business*
0930 – 0945	*Break*

0945 – 1200	***Facility Fire Hazard Management (cont'd)*** *Understand and Apply Related NFPA Standards and Company Requirements and Standards ● Possess Knowledge of Fire Services, Environmental Hazards and Building Construction ● Oversee Acquisition, Installation, Operation, Maintenance and Disposition of Building ● Manage the Maintenance of Building Structures*
1200 – 1300	*Lunch*
1300 – 1530	***Facility Fire Hazard Management (cont'd)*** *Evaluate Code, Law and Regulation Compliance of a Facility's Operations ● Develop and Manage Emergency Preparedness Procedures and Assure All Emergency and Procedures are Tested as Planned ● Understand Public Protection Class and Municipal and Private Water Systems*
1530 – 1545	*Break*
1545 – 1650	***System Approaches to Property Classes*** *Assess Life Safety as It Relates to: Understand Fire Protection in Special Occupancies ● Understand Fire Protection In Warehouse and Storage Operations ● Understand Fire Protection of Electronic Equipment*
1650 - 1700	***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*
1700	*End of Day Three*

Day 4: ***Thursday, 24th of October 2024***

0730 – 0930	***Organizing for Fire & Rescue Services*** *Perform Pre-Incident Planning for Industrial and Commercial Facilities ● Understand Operations of Fire Loss Prevention and Emergency Organizations ● Understand Operations of Emergency Medical Services ● Understand Municipal Fire Prevention and Code Enforcement Operations ● Train Fire and Emergency Services*
0930 – 0945	*Break*
0945 – 1200	***Organizing for Fire & Rescue Services (cont'd)*** *Understand Operations of Fire Department Facilities and Fire Training Facilities ● Understand Operations of Public Emergency Services Communication Systems ● Understand Fire Department Apparatus and Equipment ● Understand the Use and Function of Fire and Emergency Services Protective Clothing and Protective Equipment ● Evaluate Fire Department Resources and the Placement Thereof*
1200 – 1300	*Lunch*
1300 – 1530	***Materials, Products & Environments*** *Understand the Hazards of: ● Understand Explosion Prevention and Protection ● Understand the Precautionary Need For Various Types of Air-Moving Equipment ● Selection, Operation and Maintenance of Materials-Handling Equipment*
1530 – 1545	*Break*
1545 – 1650	***Detection & Alarm*** *Understand Operational Characteristics of the Modern Fire Alarm Systems ● Understand Operational Characteristics and Proper Application of Automatic Fire Detectors ● Understand the Benefits and Requirements of Fire Alarm Systems Interfaced to Other Systems ● Understand Inspection, Testing and Maintenance of Fire Alarm Systems ● Plan and Administer Surveillance and Fire Guard Services for Fire Protection ● Provide Plans Review for Detection and Alarm Systems*
1650 - 1700	***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*
1700	*End of Day Four*

Day 5: ***Friday, 25th of October 2024***

0730 – 0900	***Water-Based Suppression*** *Evaluate Need for Water Distribution Systems ● Provide Plans Review for Water-Based Systems ● Identify and Understand Water Supply System Requirements ● Identify and Understand Design Criteria for Hydraulics for Fire Protection ● Determine Water Supply Adequacy ● Identify and Understand the Operating Principles of Stationary Fire Pumps ● Understand Fine Water Mist Systems and their Applications ● Identify and Understand the Operating Principles of Automatic Sprinkler Systems*
0900 – 0915	*Break*
0915 – 1100	***Fire Suppression without Water*** *Identify and Understand Halogen and Direct Halogen Replacement Agents and Systems ● Provide Plans Review For Non Water-Based Systems ● Identify and Understand the Properties, Proper Use/Application and the Limitations of Carbon Dioxide Extinguishing Agents and Application Systems ● Identify and Understand the Properties, Proper Use/Application and the Limitations of Both Dry and Wet Chemical Extinguishing Agents and Application Systems*
1100 – 1200	*Lunch*
1200 - 1430	***Fire Suppression without Water (cont'd)*** *Identify and Understand the Basic Characteristics and Applications of Various Foam Extinguishing Agents and the Methods for Producing Fire-Fighting Foam Systems ● Identify and Understand Proper Use and Maintenance of Portable Fire Extinguishers ● Identify and Understand the Proper Extinguishing Agents and Application Techniques for Combustible Metal Fires ● Care and Maintenance of Non Water-Based Extinguishing Systems*
1430 - 1445	*Break*
1445- 1615	***Confining Fires*** *Understand Building Construction Elements for Fire Protection ● Understand the Following Elements of Confinement of Fire in Buildings ● Identify and Describe the Structural Damage Factors to be Evaluated After a Fire ● Identify Fire Hazards of Construction, Alteration and Demolition of Buildings*
1615 – 1630	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1630 – 1645	***POST-TEST***
1645 – 1700	*Presentation of Course Certificates*
1700	*End of Course*

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK Exam during the 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Practical Sessions

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

Course Coordinator

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