



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

Course Title

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

Course Reference

HE1192

Course Duration/Credits

Five days/4.0 CEUs/40 PDHs



Course Date/Venue

Session(s)	Dates	Venue
1	January 14-18, 2024	Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA
2	April 14-18, 2024	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
3	June 30-July 04, 2024	Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey
4	October 21-25, 2024	Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Description



This practical and highly-interactive course includes practical sessions and demonstration where participants carryout fire fighting and rescue missions. Theory learnt in the class will be applied using a fire extinguisher and various fire fighting equipment



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 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

Al Khobar	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.
Dubai	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.
Istanbul	US\$ 6,000 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Abu Dhabi	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:-

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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.

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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. Roedolf Coetzer is a **Senior HSE Consultant** with over **30 years** of extensive practical experience within the **Oil & Gas, Refinery, Power, Petroleum and Petrochemical** industries. His expertise includes **Safety Auditing, Hazard Identification & Site Inspection, Safety Inspector Qualification, Certified Safety Manager (CSMP), Industrial Safety, Construction Safety, HSE Management, Risk Management, Risk Assessment & Mitigation, Job Hazard Analysis (JSA), Hazard Analysis & Control, Hazard Recognition, Hazard Identification, Root Cause Analysis & Problem Solving, Accident & Incident Investigation, First Aid, CPR, AED (BFA) Basic Life Support (BLS), Basic Ambulance, Emergency Care, Self-Contained Breathing Apparatus (SCBA), Personal Protective Equipment (PPE), Incident Command, Incident Report & Investigation, Accident/Incident Investigation, Root Cause Analysis & Reporting, Emergency Response, Emergency Control Centre Operations, Oil Spill Response, Emergency Management, Confined Space Safety, Fall Protection, Gas Leaks & Gas Detectors Testing, Workplace Violence Prevention, HAZID, HAZMAT, HAZOP, HAZWOPER, Process Hazard Analysis (PHA), Process Safety Management (PSM), Safety Audit, Fleet Safety Management, Lockout & Tag-out (LOTO) Ergonomics, Project Management, Human Resource Development, Tactics & Strategies in Hostile Environments, Organizational Change, Quality Assurance, Safety Supervision & Leadership and Industrial Hygiene. Further, he is well-versed in **Fire Extinguishers, Firefighting, Triangle of Fire, Portable Fire Extinguisher, Fire Rescue, Fire Protection, Fire Prevention, Fire Investigation, Fire Behaviour, Fire Suppression Systems, Fire Safety, Fire Engineering Management, Fire Risk Assessment, Fire Awareness, Fire Detection & Alarm Systems, Hose Reels & Sprinkler Systems, Fire & Rescue Planning & Operation, Fire Equipment & Facilities Inspection, Fire Trucks Driving & Operation, Fire Aviation, Wild Land Firefighting/ICS and Fire & Emergency Services Start-up & Mobilization. He is also specialized on NFPA Codes & Standards, OSHA Standards, ISO 9001, ISO 14001, OHSAS 18001 and Lean Six Sigma. He is currently the General Manager of AGECEC and ranked as a Distinguished Toastmaster (DTM).****

During his career life, Mr. Coetzer has gained his practical and field experience through his various significant positions and dedications as the **Fire Chief, Fire Engineer, HSE & Security Manager, Environmental Manager, Project Manager, Acting HSE Manager, Senior Fireman, Fireman, Fire Marshall, Assistant Chief Fire Officer (ACFO), Spill Response Team Leader, Senior Fire & Emergency Response Technical Advisor, Subject Matter Expert, Training Development Specialist, Learning & Development Officer, Senior Officer, Facility Management Senior Health & Safety Supervisor, Fire & Rescue Services Team Member, Junior Fireman, Operational Medical Orderly (Ops Medic) and a Fire Safety, Prevention & Safety Technology Technician** from various companies such as the Southern African Emergency Services Institute, South African Fire Services, Al-Muhaidib Contracting Company, ACWA Power Health & Safety, HIWPT, Rabigh Arabian Water & Electricity Company (RAWEC), King Abdulaziz International Airport, SRT, Sizwe Consultants, Highveld Steel and Vanadium, Kriel City Council, Germiston City Council and South African Defence Force.

Mr. Coetzer is a **Certified IFSAC Firefighter I&II (NFPA 1001)**, a **Certified First Responder Awareness Level (NFPA 472)** and holds a Certificate in **Electrical & Electronics NQF Level 4, Leadership Excellence (LDREXC), High-Level Executive Coaching in High-Performance Mentorship, and Leader Strategic Management SUAS. Further, he is a Neuroscience Mental Focus Specialist Advisor, a Professional Practitioner in Psychology Counselling, ISO 9001, ISO 14001 Auditor, Certified Lean Six Sigma Yellow Belt & White Belt, a Certified IADC Rig Pass Safety Orientation Instructor, a Certified Internal Verifier/Assessor/Trainer by the Institute of Leadership & Management (ILM) and a Certified Instructor/Trainer. Moreover, he is a Registered Basic Ambulance Assistant by the South African medical and Dental Council, a recognized member of The International Fire Service Accreditation Congress (IFSAC), the National Fire Protection Association (NFPA), the International Association of Drilling Contractors (IADC) and South African Fire Institute. He has further delivered innumerable courses, trainings, 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

0730 – 0800	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	Safety in the Built Environment <i>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</i>
0930 – 0945	<i>Break</i>
0945 – 1200	Basics of Fire & Fire Science <i>Identify the Chemistry and Physics of Fire • Identify Dynamics of Fire Growth</i>
1200 – 1300	<i>Lunch</i>
1300 – 1530	Information & Analysis for Fire Protection <i>Conduct Fire Loss Investigation • Collect and Use Fire Incident Data and Statistics</i>
1530 – 1545	<i>Break</i>
1545 – 1650	Information & Analysis for Fire Protection (cont'd) <i>Conduct Fire Analysis • Apply Data and Analysis</i>
1650 - 1700	Recap <i>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</i>
1700	<i>End of Day One</i>

Day 2

0730 – 0930	Human Behavior in Fire Emergencies <i>Identify Principles of Human Behavior and Fire • Identify Concepts of Egress Design • Use Calculation Methods for Egress Prediction</i>
0930 – 0945	<i>Break</i>
0945 – 1200	Fire Prevention <i>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</i>
1200 – 1300	<i>Lunch</i>
1300 – 1530	Fire Prevention (cont'd) <i>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</i>



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

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

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

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 <i>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</i>
1615 – 1630	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1630 – 1645	POST-TEST
1645 – 1700	<i>Presentation of Course Certificates</i>
1700	<i>End of Course</i>

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 7 days following the course completion. Each participant has only one trial for the MOCK exam within this 7-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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