

COURSE OVERVIEW HE0328

Fire Extinguishers (E-Learning Module)

Course Title

Fire Extinguishers
(E-Learning Module)

Course Reference

HE0328

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



One of the most important responsibilities of every employee is the detection and prevention of fires. All employees shall be trained in the proper and safe use of fire extinguishers. This course of instruction is not designed to turn participants into firefighters, but rather equip them with the knowledge and skills to detect and extinguish a fire only when it is safe to do so.



This E-Learning course is designed to provide participants with a detailed and up-to-date overview of fire extinguishers. It covers the operating procedures for fire that covers finding, informing, restricting and extinguishing; basic firefighting and how fires start including fire triangle and tetrahedron; the stages of fire comprising of incipient stage, smouldering stage, flame stage and heat stage; and extinguishing fire by attacking and eliminating at least one of the four sides of the tetrahedron.



Further, the course will also discuss the products of fire and fire classification; the class K fires and heat source; the fire prevention; the fire extinguisher anatomy and stored-pressure water; the various types of water extinguishers; the aqueous film forming foam (AFFF) extinguishers; the applications of AFFF extinguishers and its methods; the carbon dioxide extinguishers and its disadvantages; and the various types and commonly used dry chemical agents/extinguishers and its disadvantages.

During this interactive course, participants will learn the dry powder extinguishers application techniques; the extinguisher rating system; the intended applications of extinguisher pictographs; the selection of portable fire extinguishers; the proper guidelines for portable fire extinguisher; the operation of fire extinguisher; the fire extinguisher chart; applying P.A.S.S. when using an extinguisher; the fire extinguisher rules; how to evacuate and applying R.A.C.E. to help respond safely and correctly during fire; the fire stream and its patterns; the fire control, fire alarm system control panels and alarm initiating devices; the double-action pull-stations, automatic initiating devices, mounting position, fire pumps, water flow alarms, deluge sprinkler systems; the three A's; the EAP information; the fire classifications; and the fire hose cabinets.

Course Objectives

After completing the training, the employee will:-

- Apply and gain a comprehensive knowledge on fire extinguishers
- Understand the concept of the triangle of fire
- Understand the concept of the classes of fire extinguishers
- Understand the concept of rating systems of fire extinguisher
- Understand the concept of the limitations of portable fire extinguishers
- Understand the concept of inspection and use of fire extinguisher
- Have practiced opening the fire extinguisher box and using the fire extinguishers to turn off fire
- Carryout operating procedures of fire that covers finding, informing, restricting and extinguishing
- Discuss basic firefighting and how fires start including fire triangle and tetrahedron
- Recognize the stages of fire comprising of incipient stage, smouldering stage, flame stage and heat stage
- Extinguish fire by attacking and eliminating at least one of the four sides of the tetrahedron
- Identify the products of fire, how fire spread and fire classification
- Describe the class K fires and heat source as well as employ fire prevention
- Discuss the fire extinguisher anatomy and stored-pressure water
- Recognize the types of water extinguishers including Aqueous Film Forming Foam (AFFF) Extinguishers
- Carryout proper applications of AFFF extinguishers and its methods
- Recognize carbon dioxide extinguishers and its disadvantages
- Identify the types and commonly used dry chemical agents/extinguishers including its disadvantages
- Employ dry powder extinguishers application techniques and recognize extinguisher rating system

- Illustrate intended applications of extinguisher pictographs and select portable fire extinguishers
- Apply proper guidelines for portable fire extinguisher, operate fire extinguisher and review fire extinguisher chart
- Apply P.A.S.S. when using an extinguisher and fire extinguisher rules
- Evacuate and apply R.A.C.E. to help respond safely and correctly during fire
- Discuss fire stream and its patterns as well as fire control, fire alarm system control panels and alarm initiating devices
- Determine double-action pull-stations, automatic initiating devices, mounting position, fire pumps, water flow alarms, deluge sprinkler systems and the three A's
- Explain EAP information, fire classifications, in case and/or during evacuation and fire hose cabinets

Who Should Attend

This course provides a complete and up-to-date overview of fire extinguishers for all employees.

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 Fee

As per proposal


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: -


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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.

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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 Contents

- Rules of the Course
- Course Objectives
- Course Format
- Operating Procedures for Fire
- The Fire Acronym
- Finding
- Inform
- Restrict
- Extinguish
- Basic Fire Fighting
- How Fires Start?
- Fuel
- Oxygen
- Heat
- The Fire Triangle
- What is Fire Triangle?
- Fire Tetrahedron
- Fire Triangle and Tetrahedron
- Stages of Fire
- Incipient Stage
- Smouldering Stage
- Flame Stage
- Heat Stage
- Fire Extinguishing Consists of Attacking and Eliminating at least One of the Four Sides of the Tetrahedron
- Fire Product
- Fire Spread
- Conduction
- Convection
- Radiation
- Fire Classification

- Class K Fires
- Heat Source
- Fire Prevention
- Class A - Ordinary Combustibles
- Class B - Flammable Liquids or Gases
- Class C - Electrical Equipment
- Class D - Flammable Metals
- We are not a Fire Brigade!
- Fire Extinguisher Anatomy
- Stored-Pressure Water
- Types of Water Extinguishers
- AFFF
- Aqueous Film Forming Foam (AFFF) Extinguishers
- Applications of AFFF Extinguishers
- AFFF Methods
- Carbon Dioxide
- Carbon Dioxide Extinguishers
- Disadvantages of Carbon Dioxide Extinguishers
- Dry Chemical
- Dry Chemical Extinguishers
- Types of Dry Chemical Extinguishers
- Commonly Used Dry Chemicals
- Disadvantages of Dry Chemical Agents/Extinguishers
- Dry Powder
- Dry Powder Extinguishers
- Dry Powder Application Techniques
- Extinguisher Rating System
- Class A Ratings
- Class B Ratings
- Class C Ratings
- Class D Ratings
- Intended Applications of Extinguisher Pictographs
- Selecting Portable Fire Extinguishers

- Guidelines for Portable Fire Extinguisher Use
- Fire Extinguishers
- Operation of an Extinguisher
- Fire Extinguisher Chart
- Remember this Easy Acronym When Using an Extinguisher - P.A.S.S.
- Operate a Fire Extinguisher
- How to Use Fire Extinguisher?
- Pull the Pin
- Aim
- Squeeze
- Sweep
- Fire Extinction
- Fire Extinguisher Rules
- Evacuation
- If you are involved in a fire, remember R.A.C.E. to help you respond safely and correctly
- Fire Streams Introduction
- Fire Stream Patterns
- Fire Control
- Fire Alarm System Control Panels
- Alarm Initiating Devices
- Double-Action Pull-Stations
- Automatic Initiating Devices
- Mounting Position
- Fire Pumps
- Fire Department Connection (FDC)
- Water Flow Alarms
- Deluge Sprinkler Systems
- The Three A's
- Awareness
- Attitude
- Action
- EAP Information
- Fire Classifications

- In Case of Evacuation
- During Evacuation
- Fire Hose Cabinets