Certified Fire Protection Specialist (CFPS)

Exam Preparation Training

VELOSI | ENGINEERING FOR A SAFER WORLD

Contents

Introduction

Velosi is conducting Certified Fire Protection Specialist (CFPS) Exam Preparation Trainings Online.

Velosi is a renowned name for providing Asset Integrity Management, HSE, Engineering, Environmental and Software Solutions in Oil & Gas, Energy, Power and Petrochemical industries across the globe. Velosi has been a leading global consulting firm since 4 decades.

At Velosi, we provide both standard and customized industrial safety training courses that are specially designed to meet the varied workplace requirements of today's training standards. Tap into the new skills and gain a certificate on completion.

Certified Fire Protection Specialist

CFPS Exam Preparation Training

The Certified Fire Protection Specialist (CFPS) credential was created in 1971 to recognize, qualified individuals through certification who are dedicated to curtailing fire loss, both physical and financial, and who have acquired a level of professionalism through applied work experiences and related education opportunities, and through successful completion of a certification examination.

Importance of Fire Protection Specialist Certification:

- Personal Development
- Show Competence
- Provides a Professional Designation
- Sense of Accomplishment, Confidence & Pride
- Industry, Peer and Management Recognition
- Career Advancement
- Job Requirement

Learning Objectives:

- Present ideologies of human behavior and fire.
- Know all factors related to Fire Protection Systems
- Detection of industrial hazards, fire prevention to protect life and asset.
- Proper handling of fire safety equipment.
- Organize public with proper Emergency Response Plan and Procedures.
- Improve training procedures and programs to educate society how to act safely, reducing the risk of injury or loss of life in the event of a blaze.
- Conduct fire loss investigation and reporting.

Who should take CFPS?

CFPS is recommended but not limited to below listed professionals

- Building Official / Facility Manager / Municipal Inspector
- Fire Marshal / Chief and Inspector
- Loss Control and Risk Manager
- Health / Safety / Security Manager
- Internal Auditor / Inspector
- Consultant / Contractor / Installer
- Architect / Designer
- Electrician / Technician
- Educator / Salesperson
- Business Owner / Partners
- All those who are directly or indirectly involved in Fire Safety related projects.

Who is Eligible to take the CFPS Exam?

Individual who meets either one of the below criteria is eligible to take CFPS Exam:

- Bachelor's or Master's Degree in a Fire Protection related discipline* from an accredited college or university, including degrees in engineering fields that are applied to the practice of fire protection; plus TWO years of verifiable work experience dedicated to curtailing fire loss, both physical and financial.

- Associate's degree in a Fire Protection-related discipline* from an accredited college or university, or a Bachelor's or Master's Degree in any unrelated field; plus FOUR years of verifiable work experience dedicated to curtailing fire loss, both physical and financial.

- High school diploma or equivalent, plus SIX years of verifiable work experience dedicated to curtailing fire loss, both physical and financial.

CFPS Certification Process

Application process	• Applications should be completed online at the CFPS Online Services Portal
Examination Details	• Open Book Examination at testing center • 3 Hours • 100 Multiple Choice Questions • 70% passing Score
NFPA Fee Details	• Member: Application + Exam Fee: USD 350.00 • Annual Renewal Fee: USD 125.00
CFPS Certification Validity	• 3 Years Validity • 50 Points
Test Formats	• Computer-Based : The CFPS examination is available on-demand as a computer-based test (CBT) at test assessment centers worldwide. NFPA has contracted through Prometric and Schroeder Measurement Technologies (SMT) for computer-based test delivery services. Upon receipt of the completed CFPS application and examination fee, the applicant will receive an authorization letter with instructions on how to schedule the computer-based exam.
Test Result	• Candidates taking the CFPS examination as a computer-based test receive a test result print-out from the test provider at the end of the examination. This print-out reflects an unofficial test result. The official result letter will be mailed approximately four weeks after the examination.

CFPS Exam Preparation Training:

Velosi & H2AIM will ensure to provide an in depth understanding about each topic to equip the individual with the knowledge they need to successfully pass the CFPS Examination Certification.

Trainer Qualification	• The trainer brings over 10 years of experience in the field of technical trainings and over 7 years of industry experience in Design, Installation, Testing & Commissioning of Fire Protection systems. Trainer holds a Bachelor's in Mechanical Engineering and the gold standard Certified Fire Protection Specialist (CFPS) & Certified Fire Inspector (CFI) certifications from NFPA.
Mode of Training	• Via Microsoft Teams • Audio/Video • Workbooks
Course Material	• NFPA Handbook 20th edition (PDF copy) • Study notes • 700+ Sample Exam Questions
Number of Participants per Class	• Minimum of 4 students per batch. • Course Duration of 40 hr. including practice exam and clarifications. • The training schedule is flexible and will be either in the mornings on the weekends and evenings on weekdays depending on the batch request.
Admission Policy	• The interested participants would register his/her name and other necessary details by submitting an online registration form post reading the Admission Policy thoroughly. • An advance payment of AED 500 should be paid at the time of registration and the balance payment shall be paid before the first day of Training via online bank transfer.
Certification Issuance Policy	• The Training Completion Certificate will be awarded after the satisfactory completion of training.
After Training Support	• Immediate support and CFPS question assistance trainer within 3 months of completed training. • Exam Application Process Assistance.

Course Discount Scheme	Participants can avail the following discounts*:
	
	• Early Bird Discount:
	   ◦ 10% Discount if you register 2 weeks in advance.
	   ◦ 5% Discount if you register 1 week in advance.
	
	• Group Discount:
	   ◦ 15% Discount for groups of 5 or more.
	   ◦ 10% Discount for groups of 3-4.
	
	• Bundle Discount:
	   ◦ Sign up for 2 courses: Extra 10% off.
	   ◦ Sign up for 3 courses: Extra 15% off.

*Only 1 discount of the higher value can be applied at a time.

Other Courses We Offer:

- Safety Certification Exam Courses
  - CFPS
  - CIH
  - ASP/CSP
  - CFSP/CFSE

- Oil & Gas/Energy Industry Training
  - Asset Integrity Management
  - Pipeline Integrity Management
  - Wellhead Integrity Management
  - Structural Integrity Management
  - Certified PHA HAZOP Leader
  - SIL Selection and Verification
  - Process Design Training
  - API Trainings.

- Maintenance & Reliability Certification Exam Courses
  - CMRP
  - CMRT

- After this Standardized Test Training
  - Quantitative Risk Assessment
  - NEBOSH courses

- Firefighting Training
- H2S & BA Training
- First Aid Courses/Training
- HSE Courses/Training
- IOSH/OSHA Certified Courses
- IADC Certified Courses
- ISO Training
- Security and Safety Training
- Environment Protection Training
- Standardized Test Training
- Administrative and Management Skills Training
- Highfield (HABC) Accredited Trainings
- Data Analytics with Tableau

Why Choose Us

- In-Depth Comprehensive Explanation of all Sections.
- Continuous Assessment with Section-wise Practice Tests
- Study Material in the form of PPT, Group Discussions, etc. written in very easily understandable language.
- Technical clarifications at all levels during/after training.
- 3- Mock Tests at the end of the training.
- 700+ Real Exam Questions & Answers
- Provides Course Completion Certificate.

Annexure : CFPS Course Outline

It is important to remember that while some of the domains correspond both in title and in content to sections of the Fire Protection Handbook (FPH), not all of them do, nor are they meant to be an exact reflection of FPH sections. For example, content area V: Fire Prevention does not have a corresponding section within the FPH, and its content is drawn from multiple FPH sections.

I. Safety in the Built Environment

- Understand the challenges to safety in the built environment
  - Types of Construction
  - Occupancy Classifications
  - Concepts and application of compartmentation
- Understand the application of fire protection features
- Be familiar with codes and standards for the built environment, major Standards Development Organizations (SDOs), and their processes.

II. Basics of Fire and Fire Science

- Understand the chemistry and physics of fire
- Identify dynamics of fire growth and products of combustion (Heat Release Rate, Flame Spread and Smoke Development).

III. Information and Analysis for Fire Protection

- Understand the process, concepts, and tools involved with fire loss investigation
- Demonstrate proficiency in the use fire incident data and statistics.
- Perform fire analysis

IV. Human Behavior in Fire Emergencies

- Understand the principles of human behavior in fire
- Perform egress design and prediction calculations

V. Fire Prevention: Programs, Materials, Processes, and Environments

- Understand Fire hazards and prevention principles
- Understand hazards to Life Safety and mitigation principles
- Understand the components, fire hazards, operating principles and fire protection practices associated with the various types of systems, including, but not limited to:
  - HVAC and refrigeration systems
  - Emergency and standby power systems
  - Photovoltaic systems

- Energy Storage Systems
- Safety Control Systems (PLC Safety Controllers, Hardwired Interlock Systems)
- Materials-handling equipment
- Electronic equipment
- Commercial kitchen and cooking equipment

- Understand and identify the fire hazards and hazard mitigation principles associated with the various processes, including, but not limited to:
  - Grinding processes
  - Semiconductor manufacturing
  - Hot work

- Understand the hazards and fire protection best practices associated with the following material storage, handling, and housekeeping principles;
  - Demonstrate knowledge of proper storage and handling procedures of solid fuels, flammable and combustible liquids and gases, and dusts.
  - Understanding the exposures and controls for various storage arrangements
  - Understand explosion prevention and protection.

VI. Facility Fire Hazard Management

- Demonstrate a knowledge and understanding of:
  - Fire department response tactics and procedures
  - Types of building construction & how they relate to fire hazards and fire service response
  - Environmental hazards to facilities

- Understand how to perform fire, explosion, and life safety risk assessment and analyses of a given facility.

- Understand how to conduct complex inspection surveys of commercial and residential properties to evaluate physical characteristics of a property and business and evaluate compliance with applicable codes, standards, and regulations.

- Understand the processes of acquisition, installation, operation, maintenance and disposition of building systems.

- Develop and manage emergency preparedness, response, and business continuity procedures and assure all emergency systems and procedures are tested as planned.

- Understand public and private water systems.

- Understand fire department access needs for facilities.

VII. System Approaches to Property Classes

- Know how to classify occupancies
- Understand life safety as it relates to different occupancy classifications
- Understand fire protection in special occupancies, including, but not limited to:
  - High-rises
  - Institutional facilities
  - Hazardous material operations
  - Warehouse and storage operations

VIII. Organizing for Fire and Rescue Services

- Perform pre-incident planning for industrial, residential, and commercial facilities
- Understand operations of fire loss prevention and emergency organizations
- Understand operations of emergency medical services
- Understand fire prevention and code enforcement operations
- Understand fire and emergency service training methodology
- Understand operations of fire department facilities and fire training facilities
- Understand operations of public emergency services communication systems
- Understand the basics of fire department apparatus and equipment
- Understand the use and function of fire and emergency services protective clothing and protective equipment (PPE)
- Evaluate fire department response and prevention resources and the placement thereof
- Understand the management of fire response operations
- Understand the concept of Community Risk Reduction (CRR)

IX. Detection and Alarm

- Understand the fundamentals and operational characteristics of the modern fire alarm and detection systems:
  - Equipment
  - Design and installation
  - Initiating devices
  - Interaction of interfaced fire protection systems
- Understand inspection, testing, and maintenance of fire alarm systems
- Understand surveillance and fire guard services for fire protection
- Understand plans review for detection and alarm systems
- Understanding the basic design and installation concepts of Two-way Radio Communication Enhancement Systems.
- Understand the benefits and proper application of smoke alarms in the one-and two-family dwelling environment

X. Water-Based Fire Suppression

- Understand the design and operation of water distribution systems
- Understand water supply system requirements
- Understand design criteria for hydraulics for fire protection
- Determine water supply adequacy testing and determination
- Identify and understand the operating principles of stationary fire pumps
- Understand inspection, testing, and maintenance processes and requirements for water-based suppression systems
- Understand the characteristics and applications of the following types of water-based suppression systems:

  - Automatic sprinkler systems
  - Fine water mist systems
  - Foam-water sprinkler systems
  - Deluge systems

- Understand the benefits and proper application of fire sprinkler systems in the one-and two-family dwelling environment.

XI. Fire Suppression without Water

- Understand the proper use/application, and the limitations of non-water based agents and systems (clean agent, hybrid, carbon dioxide, dry and wet chemical, foam, etc.)
- Understand the design, proper installation, and operation of non-water-based extinguishing systems
- Understand inspection, testing, and maintenance processes and requirements for non-water-based extinguishing systems
- Understand the proper installation, use, testing, and maintenance of portable fire extinguishers

XII. Confining Fires

- Understand building construction elements for fire protection.
- Understand the following elements of confinement of fire in buildings.

  - Fire resistance rated construction
  - Fire walls, barrier, and partitions
  - Smoke barriers
  - Fire doors and windows
  - Protection of openings and penetrations

- Understand structural damage factors to be evaluated after a fire.
- Understand fire hazards associated with construction, alteration and demolition of buildings.