

**FIRE 208.4 Course Outline as of Fall 2017****CATALOG INFORMATION**

Dept and Nbr: FIRE 208.4 Title: FIREFIGHTER 1 CAPSTONE

Full Title: Firefighter 1 Capstone Training

Last Reviewed: 5/8/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	0	6	Lecture Scheduled	0
Minimum	1.00	Lab Scheduled	8.75	2	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	8.75		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 52.50

Title 5 Category: AA Degree Applicable

Grading: P/NP Only

Repeatability: 21 - Legally Mandated Repetition

Also Listed As:

Formerly:

**Catalog Description:**

This course prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) including the capstone knowledge and skills necessary to pass FFI. Upon successful completion, students will receive a pass letter from SFT and a FFI pass certificate from the college.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:****Schedule of Classes Information:**

Description: This course prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) including the capstone knowledge and skills necessary to pass FFI. Upon successful completion, students will receive a pass letter from SFT and a FFI pass certificate from the college. (P/NP Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Legally Mandated Repetition

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>UC Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Identify the use of the appropriate firefighting tools, tactics and strategies for given firefighting situations
2. Demonstrate and apply the use of fire department equipment through its selection for given firefighting skills

### **Objectives:**

Upon completion of the course, students will be able to:

1. Identify the Firefighter I certification track, test evaluation methods participation and capstone task book requirements
2. Describe the mission of the fire service and the role of the firefighter and the Standard Operating Procedures (SOP's), rule and regulations used by fire departments
3. Demonstrate the ability to don, use and doff Personal Protective Equipment (PPE) and Self-Contained Breathing Apparatus (SCBA) in simulated emergency situations
4. Demonstrate the ability to inspect a SCBA and replace an SCBA air cylinder
5. Demonstrate the ability to respond and operate safely at an emergency scene following established procedures and wearing proper PPE
6. Demonstrate the ability to receive a phone call using established procedures, relay the appropriate information and initiate a response to a reported emergency
7. Demonstrate the ability to transmit and receive messages relaying accurate information using fire department radios
8. Demonstrate the ability to tie a knot appropriate for hoisting tools securely as directed
9. Demonstrate the ability to illuminate an area of an emergency scene using electrical and lighting equipment according to the manufactures and agency guidelines
10. Demonstrate the ability to clean and maintain a wide variety of fire department tools and equipment
11. Demonstrate the correct selection of a fire extinguisher for a given fire and the proper techniques for extinguishing a Class A, B or C fire

12. Demonstrate the ability to conduct a forward hose lay as a member of a team
13. Demonstrate the ability to deploy a portable tank and prepare for drafting operations
14. Demonstrate the ability to load, deploy and advance attack and supply hose
15. Demonstrate the ability to clean and maintain hose, mark defective hose, build hose rolls, replace burst hose sections and extend lines
16. Demonstrate the ability to secure (turn-off) all building utilities safely
17. Demonstrate the ability to lift, carry and raise an extension ladder single person
18. Demonstrate the ability to use forcible entry tools and equipment to force the opening of a door, window or wall
19. Demonstrate the ability to conduct a search and rescue of a civilian or firefighter with or without respiratory protection
20. Demonstrate the ability to activate an emergency call for assistance and exit a hazardous area
21. Demonstrate the ability to rescue a victim from an elevated location using a 24 foot ladder
22. Demonstrate the ability to conduct an interior fire attack as a member of a team, locating and controlling the fire
23. Demonstrate the ability to extinguish exterior fires in vehicles and in stacked and piled materials
24. Demonstrate the ability to operate a charged attack hose line from a ground ladder
25. Demonstrate the ability to deploy and operate a portable master stream
26. Demonstrate the ability to use horizontal and vertical ventilation techniques to ventilate a structure
27. Demonstrate the ability to correctly perform salvage operations in a room
28. Demonstrate the ability to remove water from the interior of a structure using correct salvage techniques
29. Demonstrate the ability to control the flow of water from a fire sprinkler system
30. Demonstrate the ability to overhaul a fire scene, extinguish hidden fires, and remove charred materials while protecting the area of origin
31. Demonstrate the ability to secure a fire scene by covering building openings
32. Demonstrate the ability to don a wildfire personal protective ensemble and deploy a fire shelter using the lying down method
33. Demonstrate the ability to assume a safe position to perform a retardant drop
34. Demonstrate the ability to inspect, maintain and sharpen hand tools
35. Demonstrate the ability to assemble, use and maintain a backpack pump
36. Demonstrate the ability to ignite and extinguish road flares and fuses
37. Demonstrate the ability to assemble, ignite, extinguish and disassemble a drip torch
38. Demonstrate the ability to use the Incident Response Pocket Guide (IRPG)
39. Demonstrate the ability to conduct a two person, 500 foot progressive hose lay
40. Demonstrate the ability to construct a fire line using handtools
41. Demonstrate the ability to perform a mobile pumping operation
42. Demonstrate the ability to prepare and defend a structure in the Wildland Urban Interface (WUI)
43. Demonstrate the ability to perform wet or dry mop-up operations
44. Demonstrate the ability to perform wildland patrol operations
45. Demonstrate the ability to identify hazardous materials and the correct PPE to be used by the responder
46. Demonstrate the ability to implement a planned response to a hazardous materials incident
47. Demonstrate the ability to perform control, containment and confinement operations to control a hazardous materials incident
48. Demonstrate the ability to perform emergency decontamination on an individual and large number of persons

## **Topics and Scope:**

- I. Orientation and Administration
  - A. Review of training facilities
  - B. Review of course syllabus
    - 1. Objectives
    - 2. Requirements
    - 3. Methods of evaluation
    - 4. Participation requirements
- II. Firefighter I Certification Test Process
  - A. Written test
  - B. Skills test
- III. Capstone Task Book Process
- IV. Firefighter I Skills Practice and Testing
  - A. Mission of the fire service
    - 1. Role of the firefighter
    - 2. Use of SOP's and rule and regulations used by fire departments
  - B. Use of PPE & SCBAs
    - 1. Donning and doffing PPE
    - 2. Donning and doffing SCBA's
    - 3. Inspecting a SCBA
    - 4. Replacing a SCBA air cylinder
  - C. Responding to and operating at an emergency scene
    - 1. Use of PPE
    - 2. Department SOPs.
  - D. Receiving emergency phone calls
    - 1. Department procedures
    - 2. Relaying pertinent information
    - 3. Initiating a response
  - E. Radio use
    - 1. Transmitting messages
    - 2. Receiving messages
  - F. Knots
    - 1. Bowline
    - 2. Clove hitch
    - 3. Figure eight in a bight
    - 4. Half-hitch
    - 5. Becket/sheet bend
    - 6. Safety knots
  - G. Hoisting equipment
    - 1. Axes
    - 2. Pike poles
    - 3. Smoke ejectors
    - 4. Chain saws
    - 5. Hoselines
    - 6. Ground ladders
  - H. Scene lighting
    - 1. Use of generators
    - 2. Light assemblies
    - 3. Power cords
    - 4. Ground fault interrupters
  - I. Cleaning and maintain fire department tools and equipment
    - 1. Ladders

2. Ventilation equipment
  - a. Smoke ejectors
  - b. Chain saws
3. SCBA's
4. Rope
5. Salvage equipment
6. Hand tools
  - a. Axe
  - b. Pike pole
  - c. Halligan
- J. Fire extinguisher use
  1. Correct selection for the type of fire
  2. Effective operating distance
  3. Proper application
- K. Forward hose lay
- L. Portable tank operations
  1. Deploying portable tanks
  2. Use of hard suction for drafting operations
- M. Fire hose
  1. Use of attack lines
    - a. Loading
    - b. Deploying
    - c. Advancing
  2. Loading supply hose
  3. Maintenance
    - a. Cleaning hose
    - b. Inspecting hose
    - c. Identifying defective hose
  4. Building hose rolls
    - a. Straight rolls
    - b. Donut rolls
    - c. Twin rolls
    - d. Double donuts
  5. Replacing burst hose
  6. Extending hoselines
- N. Controlling building utilities
  1. Securing electrical power
  2. Securing gas connections
  3. Securing water supplies
- O. Deploying an extension ladder
  1. Lifting and carrying
  2. Footing and raising
  3. Checking for hazards and extending
  4. Adjusting climbing angle
  5. Lowering and stowing
- P. Conducting Forcible entry
  1. Selection of the point of entry
  2. Selection of the correct tool(s)
  3. Entering a window
  4. Entering a door
  5. Breaching a wall
- Q. Search and rescue

1. Primary search and rescue of a victim with no respiratory protection
  2. Primary search and rescue of a firefighter with respiratory protection
  3. Lower a rescued victim down a ladder
  4. Making an emergency call and exiting a hazardous area
- R. Fire attack operations
1. Interior fire attack as a member of a team
  2. Exterior fire attack as a member of a team
  3. Operating an attack line from a ladder
  4. Fire attack on a vehicle fire
  5. Deploying and operating a portable master stream
- S. Ventilation
1. Horizontal ventilation
  2. Vertical ventilation
- T. Salvage and Overhaul
1. Salvage of a room and contents
  2. Water removal techniques from a structure
  3. Controlling the flow of water from a fire sprinkler
  4. Separation and removal of charred material while protecting the area of origin
  5. Covering Building openings
  6. Overhauling a fire scene
- U. Wildland PPE, safety and tools
1. Donning wildfire PPE
  2. Deploying a fire shelter using the lying down method
  3. Assuming a safe position for a retardant drop
  4. Inspecting, maintaining and sharpening hand tools
  5. Assembling, use and maintenance of backpack pumps
  6. Igniting and extinguishing road flares and fuses
  7. Assembling, igniting, extinguishing and disassembling a drip torch
  8. Using the IRPG.
- V. Wildland suppression
1. Conducting a two person, 500 foot progressive hose lay
  2. Constructing a fire line using hand tools
  3. Performing mobile pumping operations
  4. Prepare and defend a structure in the WUI
  5. Performing wet or dry mop-up operations
  6. Performing wildland patrol operations
- W. Identifying and planning a hazardous materials response
1. Identifying hazardous materials, their potential hazards and appropriate PPE
  2. Implementing a planned response to a hazardous materials incident
- X. Performing hazardous materials control, containment and confinement activities
- Y. Hazardous materials decontamination activities
1. Performing emergency decontamination
  2. Performing mass decontamination

### **Assignment:**

1. Students are expected to spend a minimum of reading 2 hours of assigned materials prior to the first class session
2. Reviewing materials from the recommended text and handout materials
3. Practice and skills demonstration of core firefighting skills including SCBA's, ropes and knots, ladders, hose, fire streams, wildland firefighting and hazardous materials
4. Written exam

## Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because skill demonstrations are more appropriate for this course.

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Skills performance exams

Skill Demonstrations  
45 - 55%

**Exams:** All forms of formal testing, other than skill performance exams.

Written exam

Exams  
45 - 55%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

## Representative Textbooks and Materials:

IFSTA Essentials of Firefighting. 6th ed. Fire Service Publications. Pearson. 2013

Fundamentals of Firefighting Skills. 3rd ed. International Association of Fire Chiefs, Jones and Bartlett. 2013