

CSFM 085B: FIRE INSPECTOR 1B: FIRE AND LIFE SAFETY

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Originator

asventura

Justification / Rationale

Periodic course review. The last time the state increased these fees was in 2008. SFT has new diploma fee increases that will go into effect on July 1, 2020.

Effective Term

Fall 2020

Credit Status

Credit - Degree Applicable

Subject

CSFM - California State Fire Marshal

Course Number

085B

Full Course Title

Fire Inspector 1B: Fire and Life Safety

Short Title

FIRE INSPECTOR 1B

Discipline**Disciplines List**

Fire Technology

Modality

Face-to-Face

Hybrid

Catalog Description

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector I including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures. Upon successful completion of the course, a CSFM diploma fee of \$140 is required to cover the California State Fire Training Certificate of Completion.

Schedule Description

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector I including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures. Upon successful completion of the course, a CSFM diploma fee of \$140 is required to cover the California State Fire Training Certificate of Completion.

Prerequisite: CSFM 085A

Lecture Units

1

Lecture Semester Hours

24

Lab Units

0

In-class Hours

24

Out-of-class Hours

30

Total Course Units

1

Total Semester Hours

54

Override Description

In order for the class to meet the requirements of the California State Fire Marshal, the class must meet for 24 hours, so there are six additional in class hours and six less out of class hours than a standard one unit lecture class.

Prerequisite Course(s)

CSFM 085A

Required Text and Other Instructional Materials**Resource Type**

Book

Author

None

Title

Fire Inspector: Principles and Practice

Edition

First

Publisher

Jones Bartlett and IAFC

Year

2016

College Level

Yes

Flesch-Kincaid Level

12

ISBN #

9781284137743

Resource Type

Book

Author

None

Title

2013 California Fire Code (with Title 19 excerpts)

Publisher

California Building Standards Commission

Year

2013

College Level

Yes

Flesch-Kincaid Level

12

ISBN #

9781609834609

Class Size Maximum

30

Entrance Skills

Read, comprehend and summarize content from CSFM 085A.

Requisite Course Objectives

CSFM 085A-Identify the administrative duties of a Fire Inspector I.

CSFM 085A-Identify the field inspection duties of a Fire Inspector I.

CSFM 085A-List commonly-used codes and standards published by the International Code Council (ICC codes) and National Fire Protection Association (NFPA standards).

CSFM 085A-Apply codes and standards to a fire protection, fire prevention, or life safety issue in California.

CSFM 085A-Demonstrate how to conduct a fire and life safety inspection in a building occupancy in accordance with jurisdictional policies.

CSFM 085A-Describe how to document and report an inspection.

CSFM 085A-Compose a clear and concise inspection report that reflects the inspection findings in accordance with applicable codes and standards and jurisdictional policies.

CSFM 085A-Recognize the need for plan review and communicate plan review requirements in accordance with applicable codes and standards and jurisdictional policies.

CSFM 085A-Identify common terminology used in legal proceedings.

Course Content

1. Introduction
 - a. Orientation and Administration
 - b. Fire Marshal Certification Process
2. Building Construction
 - a. Verifying Construction Type for an Addition or Remodel
3. Occupancy Classifications
 - a. Identifying Occupancy Classifications for a Single-use Occupancy
4. Occupancy Load
 - a. Computing the Allowable Occupant Load of a Single-use Occupancy
5. Means of Egress
 - a. Inspecting Means of Egress Elements
6. Hazardous Conditions and Fire Growth Potential
 - a. Recognizing Hazardous Conditions
 - b. Recognizing Hazardous Fire Growth Potential in a Building or Space

Course Objectives

Objectives	
Objective 1	Identify different levels in the Fire Marshal certification track, the courses and requirements for Fire Inspector I certification, and be able to describe the capstone task book and testing process.
Objective 2	Verify the type of construction for an addition or remodel in order to identify and record the construction type in accordance with applicable codes and standards and jurisdictional policies.
Objective 3	Describe applicable codes and standards adopted by the jurisdiction during the fire code adoption process.
Objective 4	Recognize occupancy classification types.
Objective 5	List the California state-regulated occupancy classifications.
Objective 6	Compute the allowable occupant load of a single-use occupancy or portion thereof in accordance with applicable codes and standards.

Objective 7	Inspect means of egress elements in order to verify the maintenance of egress elements in compliance with applicable codes and standards.
Objective 8	Recognize hazardous conditions involving equipment, processes, and operations in order to verify that equipment is maintained and processes and operations are conducted in accordance with applicable codes and standards.
Objective 9	Discuss hazardous fire growth potential in a building or space.
Objective 10	Identify safe housekeeping practices related to hazardous fire growth potential.
Objective 11	Calculate fire flows for a site that are in accordance with applicable codes and standards.
Objective 12	Calculate and graph fire flow results.
Objective 13	Identify what types of occupancies are required to have an evacuation plan.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:

Outcome 1	Identify the five types of building construction.
Outcome 2	Describe Hazardous Conditions and Fire Growth Potential in occupied and unoccupied building spaces.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Activity	In class scenario based activities
Role Playing	Student based role playing
Participation	Question and Answer activities
Lecture	Lecture and power point presentation
Discussion	Occupant load and building classifications

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Reading assignments and research are required and may include but, are not limited to, the following in preparation for the CSFM final examination: Course textbook(s) California Building Code California Fire Code Title 19	Out of Class Only
Student participation/contribution	Discuss inspection procedures	In and Out of Class
Mid-term and final evaluations	CSFM final exam	In Class Only
Group activity participation/observation	Deliver individual or group presentations on assigned topic of Hazardous fire growth potential in a building or space, Occupancy Classifications, or Means of Egress	In Class Only
Computational/problem-solving evaluations	Calculate building occupant loads pertaining to single use occupancies. Demonstrate calculation methods in preparation for CSFM final exam.	In and Out of Class
Field/physical activity observations	View video on how to perform actual inspections	In Class Only
Self-paced testing	Read and review text book covering occupancy classifications, occupancy loads, means of egress, hazardous conditions, fire growth potential in preparation for the CSFM final examination.	Out of Class Only

Assignments

Other In-class Assignments

1. Analyze case studies from the following:
 - a. Course textbook(s)
2. Reference the following during class discussions

- a. California Building Code
 - b. California Fire Code
 - c. Title 19
3. In class activities
- a. Verifying Construction Types
 - b. Calculating allowable occupant loads of a single-use occupancy
 - c. Research Codes and Standards on the following:
 - i. Hazardous fire growth potential in a building or space
 - ii. Occupancy Classifications
 - iii. Means of Egress
 - d. Inspection Process

Other Out-of-class Assignments

1. Reading assignments and research are required and may include but, are not limited to, the following:
 - a. Course textbook(s)
 - b. California Building Code
 - c. California Fire Code
 - d. Title 19
2. Research specific sections of the California Building and Fire Codes pertaining to the following:
 - a. Applicable codes and standards adopted by the jurisdiction during the fire code adoption process.
 - b. California State-regulated occupancy classifications.
 - c. Calculate fire flows for a site that are in accordance with applicable codes and standards
 - d. Safe housekeeping practices related to hazardous fire growth potential
3. Research and prepare for in class presentation assignment
4. Read and review text book covering occupancy classifications, occupancy loads, means of egress, hazardous conditions, fire growth potential in preparation for the CSFM final examination.

Grade Methods

Pass/No Pass Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %

49

On-campus %

51

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

May use Zoom to encourage group or individual online meetings or discussions. Student data security will not be affected.

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

Zoom will provide instructor/student and student/student interactions in the course. It will provide opportunity for video interactions in a virtual classroom.

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Timely feedback and return of student work as specified in the syllabus
Discussion forums with substantive instructor participation
Regular virtual office hours
Online quizzes and examinations
Video or audio feedback
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cm mediasolutions, etc.)
Telephone contact/voicemail

For hybrid courses:

Scheduled Face-to-Face group or individual meetings
Field trips
Orientation, study, and/or review sessions

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Use of the selected strategies provide instructor/student interactions throughout the course. Effective contact will occur throughout the course by way of announcements, comments provided when grading assignments, video responses, interactive group discussions with the instructor providing feedback, emails, and phone calls.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Phone calls with students provide immediate feedback or clarification when assignments are not fully understood.

Other Information**MIS Course Data****CIP Code**

43.0201 - Fire Prevention and Safety Technology/Technician.

TOP Code

213300 - Fire Technology

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Credit Course

Approved Special Class

Not special class

Noncredit Category

Not Applicable, Credit Course

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

General Education Status

Not applicable

Support Course Status

Course is not a support course

Allow Audit

No

Repeatability

No

Materials Fee

No

Additional Fees?

Yes

Additional Fee Amount

\$140.00

Additional Fees Description

California State Fire Marshal Diploma Fee

Approvals**Curriculum Committee Approval Date**

5/05/2020

Academic Senate Approval Date

5/14/2020

Board of Trustees Approval Date

6/18/2020

Chancellor's Office Approval Date

6/26/2020

Course Control Number

CCC000576953

Programs referencing this course

Fire Technology Certificate of Achievement (<http://catalog.collegeofthedesert.eduundefined?key=146/>)