

Lassen Community College Course Outline

FS 92C Company Officer 2C: Fire Inspections and Investigation for Company Officers (NFPA Fire Officer Level 1 and II) 2.0 Unit

I. Catalog Description

This course is designed for practicing firefighters seeking promotion to the rank of company officer. This course prepares or enhances the ability of first time supervisors through provision of information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence.

This course part of a series of five core professional development courses required for the California State Fire Training Company Officer Certification. Successful students in this course earn credit towards the degree while meeting California State Fire Training certification requirements. A supplemental State Fire Training CFSTES certification fee of \$141.00 is due to Lassen Community College and will be collected at the time of registration.

Prerequisites: Meet the educational requirements for Fire Fighter II or four (4) years as a career fire fighter or six (6) years as a volunteer fire fighter.

Transfer Status: NT

40 Hours Lecture, 80 Hours Outside Study: 120 Total Student Learning Hours

Scheduled: Spring

II. Coding Information

Repeatability: Not repeatable

Grading Option: Graded

Credit Type: Credit-Program Applicable

TOP Code: 213300

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course the student will be able to:

1. Conduct a fire inspection
2. Define the various occupancies according to the current California Fire Code
3. Describe fire detection systems

B. Student Course Objectives

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IV. Course Content

Introduction:

1. Fire Officer Certification Process
 - A. Identifying the different levels of certification in the Officer Certification track.
 - B. Identify courses and experience required for level 1 and Level II

- C. Describe Task book and examination process
2. Definition of Duty
 - A. Identify the duties of a company Officer Level 1
 - B. Identify the duties of a company officer level II
 - C. Identify the duties of a wildland fire officer level I
 3. Explaining the impact of State and Federal Laws and Regulations
 - A. Define Laws, Regulations Codes and standards.

Fire and Life Safety Inspections:

4. Describing Fire Inspection Procedures
 - A. Describe the various occupancies according to the current California Fire Code
 - B. Describe Inspection procedures
 - C. Describe fire alarm system
 - D. Describe protection systems
 - E. Identify fire hazards
 - F. Identify life safety hazards
 - G. Apply appropriate codes and standards
 - H. Describe wildland-urban interface procedures
5. Identify Features that Prevent or Contribute to Fire Spread
 - A. Describe Fire Behavior as it related to fire spread in the various occupancies according to the current California Fire Code
 - B. Identify five types of building construction
 - C. Identify building construction features
 - D. Describe the impact of detection, alarm and suppression systems
 - E. Describe the impact of applicable ordinances, codes and standards
 - F. Describe the purpose of a pre incident plan
 - G. Describe the pre incident survey process

Fire Investigation:

6. Securing Incident Scenes
 - A. Identify types of evidence
 - B. Describe the importance of scene security including legal aspects of fire scene security
 - C. Describe the importance of evidence preservation
 - D. Identify procedures for establishing perimeters at an incident scene
7. Determining origin and Cause
 - A. Identify methods used by arsonists
 - B. Identify common causes of fire
 - C. Describe basic fire cause and origin determination
 - D. Describe fire growth and development
 - E. Describe the documentation of preliminary fire investigative procedures
 - F. Apply knowledge using deductive skills

V. Assignments

A. Appropriate Readings

1. *Fire Officer: Principles and Practice*, enhanced 3rd edition, Jones and Bartlett, 2015, ISBN: 9781284068368
2. *Fire and Emergency Services Company Officer*, fifth edition, International Fire Service Training Association, 2014, 9780879395643,

B. Writing Assignments

Prepare an inspection on an identified building using an inspection form. Short written assignments analyzing the impact of building construction on fire behavior.

C. Expected Outside Assignments

Reading assignments are required. Prepare a pre-incident survey. Essays and summaries on topics related to causes of fire and origin determination

Specific Assignments that Demonstrate Critical Thinking

Examine and critique use of various fire alarm, detection and suppression systems within a given structure.

VI. Methods of Evaluation

Traditional Classroom Evaluation

Final exam and assignments

Online Evaluation

Same as face-to-face instruction including a variety of evaluation methods such as: research papers, asynchronous and synchronous discussions (chat/forum), exercises/assignments, online quizzes and exams, and postings to online website.

Hybrid Evaluation

All quizzes and exams will be administered during the in person class time. Students will be expected to complete online assignments and activities equivalent to in class assignments and activities for the online portion of the course. Electronic communication, both synchronous and asynchronous will be evaluated for participation and to maintain effective communication between instructor and students.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery

Online Delivery

Traditional Classroom Delivery

Lecture, discussion, audio/visual aids, demonstration, group exercises, guest speakers, lab, individualized programs and other as needed.

Online Delivery

A variety of methods will be used, such as: research papers, asynchronous and synchronous (chat/forum) discussions, online quizzes and exams, posting to online website and email communications using the districts approved learning management system.

Hybrid Delivery

A combination of traditional classroom and online instruction will be utilized. Each semester a minimum of 17 hours, or 1/3 of the lecture hours, will be taught face-to face by the instructor and the remaining hours will be instructed online through the technology platform adopted by the District. Traditional class instruction will consist of exercises/assignments, lectures, visual aids, and practice exercises. Online delivery will

consist of exercises/assignments, lecture posts, discussions, adding extra resources and other media sources as appropriate.

VIII. Representative Texts and Supplies

Fire Officer: Principles and Practice, enhanced 3rd edition, Jones and Bartlett, 2015, ISBN: 9781284068368

Fire and Emergency Services Company Officer, fifth edition, International Fire Service Training Association, 2014, 9780879395643,

IX. Discipline/s Assignment

Fire Technology

X. Course Status

Current Status: Active

Original Approval Date: 02/18/2020

Course Originator: Anna Pasqua

Board Approval Date: 03/10/2020

Chancellor's Office Approval Date: 03/20/2020

Revised By: Dan Weaver

Curriculum/Academic Standards Committee Revision Date: 10/04/2022