FT R240: WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS - 2E

Originator
michael_ketaily

Co-Contributor(s)

Name(s)
Jewett, Matthew (mjewett)

College
Oxnard College

Attach Support Documentation (as needed)
company-officer-2e-course-plan.pdf
sft-fee-schedule-2021 (1).pdf

Discipline (CB01A)
FT - Fire Technology

Course Number (CB01B)
R240

Course Title (CB02)
Wildland Incident Operations for Company Officers - 2E

Banner/Short Title
Wildland Incident Operations

Credit Type
Credit

Honors
No

Start Term
Fall 2021

Catalog Course Description
Designed for the working firefighter, this course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. This Company Officer course is one of a series required for Company Officer certification by California State Fire Training.

Taxonomy of Programs (TOP) Code (CB03)
2133.00 - *Fire Technology

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
B (Transferable to CSU only)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
Y - Credit Course

Funding Agency Category (CB23)
Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)
1 - Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will not be required

Grading method
(L) Letter Graded

Alternate grading methods
(E) Credit by exam, license, etc.

Does this course require an instructional materials fee?
Yes

Fee Amount
140.00

What personal property or material does the student need that the fee pays for?
1 @ $140.00 each registration/certification fee paid to State of California Fire Marshal (California Fire Service Training and Education System - CFSTES).

Identify a specific course objective that cannot be met but for the use of the materials at issue.
Certificates contribute to the professional growth of the firefighter persuing the Company Officer certification.

Describe how the material has continuing value outside the classroom.
Industry certifications stay with the student for life and aid in the job placement and career advancemnt of the student.

Is the amount of materials the students must supply, or the amount that they receive in exchange for the fee that is charged, consistent with the amount of material necessary to meet the required objectives of the course?
Yes

If students pay a fee rather than furnishing their own materials, why do they have to pay a fee rather than supply the materials themselves? Is the district/college the only source of the materials? If not, is there a health or safety reason for the district/college to supply the materials? If not, will the district/college supply the materials more cheaply than they can be obtained elsewhere, AND at the district's/college's actual cost?
This is a State Fire Marshal Accredited Course with a required registration fee. Students cannot register witht the Fire Marshal directly and required materials are distributed to students at the first class meeting.

Specify the month and year in which the fee amount, or list of material provided, was reviewed by the host department to ensure that the preceding standards continue to be met.
November, 2020

Repeatable for Credit
No

Is this course part of a family?
No

Units and Hours

Carnegie Unit Override
No

In-Class

Lecture
Minimum Contact/In-Class Lecture Hours
40
Maximum Contact/In-Class Lecture Hours
40

Activity

Laboratory

Total in-Class

Total in-Class
Total Minimum Contact/In-Class Hours
40
Total Maximum Contact/In-Class Hours
40

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class
Minimum Outside-of-Class Hours
80
Maximum Outside-of-Class Hours
80

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
120
Total Maximum Student Learning Hours
120

Minimum Units (CB07)
2
Maximum Units (CB06)
2

Prerequisites
FT R230 and FT R241

Limitations on Enrollment
Others (specify)

Other Limitations on Enrollment
Meets the educational requirements of Fire Fighter II or or four (4) years as a career fire fighter, or six (6) years as a volunteer fire fighter.

Entrance Skills
Entrance Skills
230

Prerequisite Course Objectives
FT R230-Describe principles of command.
FT R230-Analyze and compare standard operating procedures for emergency operations.
FT R230-Evaluate emergency scene conditions and determine tactical priorities.
FT R230-Outline an incident action plan.
FT R230-Identify command staff and unit supervision positions within the incident management system.

Entrance Skills
241

Prerequisite Course Objectives
FT R241-Identify the various components of the fire environment.
FT R241-Describe the influence of topography on fire behavior.
FT R241-Describe the different weather process in the atmosphere that influence fire behavior.
FT R241-Describe the factors that contribute to and the characteristics of extreme fire behavior.
FT R241-Demonstrate the ability to gauge fire behavior and use it to guide fire line decisions.

Requisite Justification
Requisite Type
Prerequisite

Requisite
FT R230

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Content review

Requisite Type
Prerequisite

Requisite
FT R241

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Content review

Student Learning Outcomes (CSLOs)

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

1	Demonstrate the ability to competently perform the role of Incident Commander for a wildland fire.
2	Demonstrate the ability to evaluate personnel and conduct the record keeping and paperwork associated with a wildland fire incident.

Course Objectives

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

1	Assemble information regarding travel route, assignment, time needed and point of contact from a dispatch agency when responding to a wildland incident.
2	Apply initial wildland report of conditions.
3	Analyze and size-up a wildland incident.
4	Formulate an incident action plan.
5	Apply objectives, strategies and tactics to mitigate a wildland emergency.
6	Evaluate wildland incident conditions, progress, changes in fuels, topography, weather, fire behavior, and significant events.
7	Describe communicating wildland conditions to supervisor and adjoining personnel.
8	Outline appropriate medical treatment, making notifications and completing reports for an injured wildland firefighter.
9	Determine appropriate fire suppression actions when deploying resources ensuring safety.
10	Summarize communication needs regarding progress updates, changes in conditions, fire behavior, and other significant events.
11	Analyze incident needs, ordering additional resources and releasing resources.
12	Identify need for logistical service and support.
13	Outline transfer of command.
14	Explain mop-up and extinguishment procedures.
15	Distinguish completion of wildland suppression operations and returning resources to service.
16	Outline need for evaluating assigned personnel on a wildland incident.
17	Support personnel qualification system.
18	Defend need for conducting personnel performance evaluation after a wildland incident.
19	Justify maintaining wildland incident records and documenting required information.
20	Support completion of personnel time and equipment use records.
21	Prepare final incident reports.
22	Outline procedure for responding to requests for incident information.

Course Content

Lecture/Course Content
1. Orientation and Administration
    a. Review of facilities
    b. Review of classroom requirements
    c. Review of syllabus, participation, assignments and evaluation methods
2. Fire Officer Certification Track Course Requirements
    a. Level I requirements
    b. Level II requirements

c. The capstone task book process
d. The capstone testing process
3. Obtaining Information from Dispatch
   a. Dispatch agency procedures
   b. Response to incidents under different jurisdictional authorities
   c. Local and Office of Emergency Services (OES) resource requests
   d. Planned need, immediate need and initial attack dispatches
4. Developing Reports on Conditions - Relevant Incident Information to be Communicated
   a. Initial radio report
   b. Follow-up report on conditions
   c. Incident updates
5. Formulating an Incident Action Plan
   a. Elements of a wildland size-up
   b. Interpreting fire behavior
   c. Resource availability and capability
   d. Identifying values at risk
   e. Incident objectives
   f. Wildland fire suppression strategies
   g. Tactical priorities
6. Use of the ICS 201 form in wildland firefighting
7. Evaluating and Reporting Ongoing Incident Conditions
   a. Evaluating wildland fire weather, fuels and topographical information
   b. Current and predicted fire behavior
   c. Incident conditions and changing the plan of action
8. Factors Affecting the Establishment of an Incident Command Post (ICP)
   a. Safety
   b. Access to incoming resources
   c. Communication needs
9. Providing for Emergency Medical Treatment
10. Local medical protocols
11. Agency accident and illness reporting procedures
12. Use of the ICS 206 Medical Plan form
13. Deploying Resources to Suppress a Wildland Fire
    a. Fireline location and construction techniques
    b. Firing operations and authority for use
    c. Firefighting personnel and equipment capabilities
    d. Radio communications capabilities and protocols
    e. Techniques for deploying assigned resources
    f. Wildland Urban Interface (WUI) incident priorities
    g. WUI tactical actions and guidelines
14. Updating Supervisors, Crew Members and Adjoining Personnel
    a. Hazards and factors related to the wildland fire environment
    b. Methods of communicating pertinent updated information
15. Analyzing Incident Needs
    a. Determining resource needs
    b. Jurisdictional policies and procedures related to resource ordering and release
16. Providing for Assigned Resource Needs
    a. Short and long term needs as required by the incident
17. Logistical support and services
18. Providing Information to the Replacement Incident Commander
19. Policies and procedures for transfer of command
20. Information to be communicated during the transfer of command
21. Deploying Resources to Mop up a Wildland Fire
22. Environmental factors
23. Capabilities of resources
24. Conducting risk assessment
25. Demobilization and Termination of an Incident

26. Procedures for Observing, Evaluating, Counseling and Documenting Personnel as to Fitness for Duty in Accordance with Agency Policies and Procedures
27. Verifying Personnel Qualifications
    a. Qualification standards
    b. Assessing personnel qualifications for assignments in accordance with agency policies and procedures
28. Procedures for Using the ICS 225 Incident Personnel Performance Rating form
29. Agency Incident Documentation Procedures
30. Policies and Procedures for Proper Record Keeping
31. Incident Reporting Policies and Procedures
32. Policies and Procedures for the Release of Incident Information

Laboratory or Activity Content
None

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):
Problem solving exercises
Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):
Essay exams
Group projects
Individual projects
Objective exams
Oral presentations
Problem-solving exams
Role playing
Reports/papers
Simulations

Instructional Methodology

Specify the methods of instruction that may be employed in this course
Audio-visual presentations
Computer-aided presentations
Class activities
Class discussions
Case studies
Distance Education
Group discussions
Instructor-guided interpretation and analysis
Lecture
Role-playing

Describe specific examples of the methods the instructor will use:
1. The instructor will lecture about firefighter fatality and near-miss incidents. Students will then work in small groups to identify which of the Standard Fire Orders or Watch Out situations were violated and present their findings to the class.
2. The instructor will show a video on proper fire shelter deployment in safety zones and inside of vehicles and the students willdiscuss and evaluate the merits of deployment in provided case studies.

Representative Course Assignments

Writing Assignments
1. Given a set of fire line conditions, estimate the minimum safety zone size.
2. Using the provided scenario, prepare an Incident Action Plan.
3. Students will write an essay profiling a firefighter line-of-duty death. Essay shall include actions prior to, during and after the incident.

Critical Thinking Assignments
1. Prepare a process for obtaining information regarding travel route, assignment, time needed and point of contact from a dispatch agency when responding to a wildland incident.
2. Research how to verify the qualifications of assigned personnel to ensure their skills are appropriate, how to identify and report deficiencies and take corrective action when needed
3. Document the transfer of command using the ICS 201 Incident Briefing form and ensuring the new Incident Commander has the information necessary to operate

Reading Assignments
1. The student will read the material on fire prediction systems and prepare a prediction of fire spread using the scenario and system provided by the instructor.
2. The student will read the material in the textbook on the risk management process and then complete a risk assessment worksheet for a provided fire scenario.

Outside Assignments

Representative Outside Assignments

1. Read weekly assignments from the chapter

2. Prepare a weekly weather analysis using the Bell Weather Kit.

3. Research the impact of Santa Ana Winds on weather conditions of less thatn 15% humidity.

Articulation

C-ID Descriptor Number
Fire 240 X

Status
Aligned

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type
Manual

Description
Command and Control of Incident Operations Student Manual. 5th ed., FEMA, 2016.

Resource Type
Manual

Description
Wildland Fire Incident Management Field Guide . National Wildfire Coordinating Group, 2013.

Resource Type
Manual

Description
Field Operations Guide. U.S. Fire Administration/National Fire Academy, 2016.

Resource Type
Manual

Description
Incident Response Pocket Guide. National Wildfire Coordinating Group, 2018.

Library Resources

Sufficient Library Resources exist
Yes

Distance Education Addendum

Definitions

Distance Education Modalities
Hybrid (51%–99% online)
Hybrid (1%–50% online)
100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.
Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.
Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Instructor will deliver lecture via conferzoom. Students will post to a discussion board and are required to post to two other student posts.
Synchronous Dialog (e.g., online chat)	Students will share their thoughts of the online lecture in an online chat with their classmates.
Synchronous Dialog (e.g., online chat)	Current brush fire videos will be played to the class. Class will be separated into breakout rooms to determine evacuation routes, strategies, tactical assignments and safety. Student develop solutions for presentation to entire class.
Asynchronous Dialog (e.g., discussion board)	Students will develop company operations for the most effective method of deploying a progressive hose lay over the course of one mile.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Student will post to a discussion board and is required to post to two other student posts.
Synchronous Dialog (e.g., online chat)	Students will share their thoughts of the online lecture in an online chat with their classmates.
Other DE (e.g., recorded lectures)	Students will watch videos thru District LMS.
Synchronous Dialog (e.g., online chat)	Current brush fire videos will be played to the class. Class will be separated into breakout rooms to determine evacuation routes, strategies, tactical assignments and safety. Student develop solutions for presentation to entire class.
Synchronous Dialog (e.g., online chat)	Instructor will utilize fire simulator to provide real-life brush fire scenarios. Students will make decisions on company placement, strategies, tactics and overall safety.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Instructor will deliver lecture thru Conferzoom. Students will post to a discussion board and are required to post to two other student posts.
Synchronous Dialog (e.g., online chat)	Students will communicate via online chat during live classes.
Synchronous Dialog (e.g., online chat)	Current brush fire videos will be played to the class. Class will be separated into breakout rooms to determine evacuation routes, strategies, tactical assignments and safety. Student develop solutions for presentation to entire class.
Asynchronous Dialog (e.g., discussion board)	Students will develop company operations for the most effective method of deploying a progressive hose lay over the course of one mile.
Other DE (e.g., recorded lectures)	Students will share their thoughts of the online lecture in an online chat with their classmates.
Asynchronous Dialog (e.g., discussion board)	Instructor will post a scenario to Discussion Board. Students will develop and post their own solutions. Students will also be required to post a comment on another student's post.

Examinations

Hybrid (1%–50% online) Modality
Online
On campus

Hybrid (51%–99% online) Modality
Online
On campus

Primary Minimum Qualification
FIRE TECHNOLOGY

Review and Approval Dates

Department Chair
09/09/2020

Dean
09/09/2020

Technical Review
09/23/2020

Curriculum Committee
09/23/2020

DTRW-I
10/08/2020

Curriculum Committee
10/14/2020

Board
11/10/2020

CCCCO
11/15/2020

Control Number
CCC000620124

DOE/accreditation approval date
MM/DD/YYYY