

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

Course: FIRE 121 Title: Firefighter 1 Capstone Skills Certification Testing

Subject Area/Course Number: FIRE-121

New Course Existing Course

Author(s): German Sierra

Subject Area/Course No.: FIRE-121

Units: 1

Course Title: Firefighter 1 Capstone Skills Certification Testing

Discipline(s): Fire Technology

Pre-Requisite(s): FIRE 120 (Firefighter 1 Academy)/ Firefighter 1 Academy offered by an ALA (approved local Fire Academy) , ARTP (Approved Regional Training Program) or a letter signed by a FIRE Chief or designee asserting that the student has completed all the Firefighter 1 skills successfully per California State Fire Marshall Firefighter 1 Curriculum of 2013

Co-Requisite(s): NONE

Advisories: NONE

Catalog Description: Fire 121 prepares the student/fire cadet with the skills and knowledge necessary to attempt the IFSAC and Pro-Board Firefighter 1 (FF1) national certification exams. Upon successful completion, students will receive a satisfactory certificate of completion given by State Fire Training. Successful completion of this class and the certification exams allow the students/cadets to start working towards the State of California Firefighter 1 certification.

*There are Mandatory Fees associated with this course that are required by the California State Fire Marshall for certification testing.

Schedule Description:

Ever wondered what it will be like to have a National Firefighter 1 Certification? One that allows you to apply for Firefighter jobs across the state or across the nation? If so, this class is for you!

Fire 121 prepares the student/fire cadet with the skills and knowledge necessary to attempt the IFSAC and Pro-Board Firefighter 1 (FF1) national certification exams. Upon successful completion, students will receive a certificate of completion given by California State Fire Marshall. Successful completion of Fire 121 and the certification exams allow the students/cadets to start working towards the State of California Firefighter 1 certification.

*There are Mandatory Fees associated with this course that are required by the California State Fire Marshall for certification testing and to other agencies.

Hrs/Mode of Instruction: Lecture: 5 Scheduled Lab: 45 HBA Lab: ____ Composition: ____ Activity: ____ Total Hours _50__

Credit Credit Degree Applicable (DA) NDA Grading P/NP/P/NP Repeatability P/NP LR Student Choice (SC) 0 1 2 3

Last date of Assessment: _____ Cohort #: _2__

Please apply for:

LMC General Education Requirement(s): NONE

Transfer to: CSU UC IGETC Area ____ CSU GE Area ____ C-ID Number ____

Course is Baccalaureate Level: Yes No

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Signatures:

Department Chair _____ Date _____
Librarian _____ Date _____
Dean (Technical Review) _____ Date _____
Curriculum Committee Chair _____ Date _____
President/Designee _____ Date _____
CCCCD Approval Date (Board or Chancellor's Office) _____ Date _____

FOR OFFICE OF INSTRUCTION ONLY. DO NOT WRITE IN THE SECTION BELOW.

STAND ALONE COURSE: YES NO

Course approved by Curriculum Committee as Baccalaureate Level: YES NO

LMC GE Requirement Approved by the Curriculum Committee: _____

FOR OFFICE OF INSTRUCTION ONLY. DO NOT WRITE IN THE SECTION BELOW.

Begin in Semester _____ Catalog year 20____/20____ Class Max: _____
Dept. Code/Name: _____ T.O.P.s Code: _____ Crossover course 1/ 2: _____
ESL Class: _____ Yes / No _____ DSPS Class: _____ Yes / No _____ Coop Work Exp: _____ Yes / No _____

Class Code A Liberal Arts & Sciences SAM Code A Apprenticeship Remediation Level B Basic Skills
 B Developmental Preparatory B Advanced Occupational NBS Not Basic Skills
 C Adult/Secondary Basic Education C Clearly Occupational
 D Personal Development/Survival D Possibly Occupational
 E For Substantially Handicapped E* Non-Occupational
 F Parenting/Family Support
 G Community/Civic Development *Additional criteria needed
 H General and Cultural 1 One level below transfer
 I Career/Technical Education 2 Two levels below transfer
 J Workforce Preparation Enhanced 3 Three levels below transfer
 K Other non-credit enhanced
 Not eligible for enhanced

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Institutional Student Learning Outcomes:

General Education SLOs:

At the completion of the LMC general education program, a student will:

1. read critically and communicate effectively as a writer and speaker.
2. understand connections among disciplines and apply interdisciplinary approaches to problem solving.
3. think critically and creatively
4. consider the ethical implications inherent in knowledge, decision-making and action.
5. possess a worldview informed by diverse social, multicultural and global perspectives.

None

Program-Level Student Learning Outcomes (PSLOs): None

Course-Level Student Learning Outcomes (CSLOs):

- **CSLO #1:** Identify, employ and apply the proper use of all Firefighter equipment and techniques as described in California State Fire Training Firefighter 1 course plan for 2013. **(PSLO 1,3)**
- **CSLO#2:** Demonstrate proficiency and mastery of all the concepts and techniques relating to all the mandatory FF1 skills , all optional FF1 skills and a final summative computerized capstone multiple choice exam as described in the California State Fire Training Firefighter 1 course plan for 2013 **(PSLO 1,2,3)**
- **CSLO#3:** Demonstrate satisfactory performance of all Wildland Firefighter and Hazardous Materials for first responders mandatory skills and any of the optional skills as referenced in the California State Fire Training Firefighter 1 curriculum 2013 **(PSLO 1,2,3)**
- **CSLO#4:** Demonstrate proficiency by successfully completing a summative online or written exam or similar with a minimum score of 70%. This exam shall cover all the topics found in the California Fire Training curriculum for Firefighter 1 2013 edition. **(PSLO 2,3)**

Assessment Instruments:

CSLO Assessed	Skills Testing	ONLINE SUMMATIVE EXAM
CSLO#1 20%	X	
CSLO#2 40%	X	X
CSLO#3 30%	X	X
CSLO#4 10%	X	X
Total 100 %		

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Assessment Description:

CSLO #1: Identify, employ and apply the proper use of all Firefighter equipment and techniques as described in California State Fire Training Firefighter 1 course plan for 2013.

Students/Fire Cadets will be assessed in all Firefighter skills found in the California State Fire Training Firefighter Curriculum for 2013, additionally, students will take a computerized capstone multiple choice examination. The aforementioned exams will assess the student/cadet hands on and cognitive knowledge of typical fire department evolutions required of entry level personnel.

Rationale:

Entry level positions within the Fire Service require candidates to have a vast and diverse array of knowledge, both academic and technical necessary to become a journey-man Firefighter and to complete his/her probationary period.

Sample hands on/skill assessment:

"Don personal protective clothing within 60 seconds, indicate when you have completed all tasks, time will then stop. Then doff your PPE, and inspect and prepare them for reuse, verbalize all elements of the inspection process."

CSLO#2: Demonstrate proficiency and mastery of all the concepts and techniques relating to all the mandatory FF1 skills, all optional FF1 skills and a final summative computerized capstone multiple choice exam as described in the California State Fire Training Firefighter 1 course plan for 2013.

Rationale:

Students/Fire Cadets will be given practice sessions and then will be tested in an array of many different Firefighter task required of an entry level Firefighter, successful demonstration of these skills is required to continue with the testing process. This portion of the testing process will be proctored by skills evaluators.

Sample written question:

Select the physical state/s in which matter is found:

- A. Dust
- B. Particles
- C. Liquid/gas**
- D. None of the above

Sample skills/ hands on test (Continued CSLO #2)

Task: Tie six of the seven following knots:

- A. Bowline knot
- B. Clove hitch
- C. Figure eight on a bight
- D. Half hitch
- E. Becket/sheet bend
- F. Safety knots.

CSLO#3: Demonstrate satisfactory performance of all Wildland Firefighter and Hazardous Materials for first responders mandatory skills (hands on) and any of the optional skills as referenced in the California State Fire Training Firefighter 1 curriculum 2013 (PSLO 1,2,3)

Rationale:

Students/Fire Cadets will be given practice sessions and then will be tested in an array Firefighter tasks required of an entry level Firefighter. Student cadets will be tested in the required knowledge and skills for Wildland Firefighting and Hazardous materials for first responders as described in the California State Fire Training Firefighter 1, 2013 curriculum. The roles and responsibilities of an entry level Firefighter extend

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well beyond basic structural Firefighting and as such a basic understanding of Wildland Firefighting and Hazardous material identification and defensive operations is needed.

Sample skills/hands on test:

Candidate Directive:

In full wildland PPE, deploy a fire shelter using the lying down method completing all tasks within 30 seconds.

CSLO#4: Demonstrate proficiency by successfully completing a summative online or written exam or similar with a minimum score of 70%. This exam shall cover all the topics found in the California Fire Training curriculum for Firefighter 1 2013 edition. (PSLO 2, 3).

Rationale:

Although this course has been designed primarily to assess the psychomotor domain of an entry level Firefighter/ Fire Cadet, a basic understanding of Firefighting concepts in the areas of fire behavior, fire extinguishment, rescue practices, wildland firefighting and hazardous materials is required. Fire cadets will take a computerized summative exam designed to test their basic understanding of the aforementioned subjects listed above.

Sample written question:

Given a chemical release, what are the most important factors regarding topography, wind and agent in a Hazardous materials incident?

Methods of Evaluation and Final Grades:

Cognitive Assessment: Students/Fire Cadets will be given ONE attempt at a summative computerized test based on all the subjects as described in the California Fire Training Firefighter 1 Curriculum. A Score greater than 70% is required for successful completion of this exam before a student is allowed to continue with the hands on portion of the test.

Hands on Skills Exams (Firefighter 1 Capstone skill testing):

The Student/Fire Cadet will be given two attempts per skill to complete a total of 10 mandatory Firefighter 1 Skills and up to 7 "optional" skills, students must show mastery of the skills without any critical failure criteria and/or any safety violations. The final summative skill as well as the online cognitive exam will be conducted under the auspice of the California Fire Training using IFSAC and Pro-Board testing standards. This is a PASS/FAIL course. All passing work is characterized by satisfactory scores using CSFM skill testing sheets, without any critical failure criteria contained therein or by any and all safety violations during testing.

All failing work is characterized by a score of less than 70% on the final summative online exam and by unacceptable performance as described on the California State Firefighter 1 skills testing sheets in conjunction with IFSAC and Pro-Board testing standards and by the commission of any and all safety violations as described on the testing documents therein.

Course Content:

1. Orientation and Administration

- a. Identify facility requirements
- b. Identify classroom requirements
- c. Review course syllabus

2. Course objectives

- a. Calendar of events
- b. Course requirements
- c. Student evaluation process
- d. Assignments
- e. Activities
- f. Required student resources
- g. Class participation requirements

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3. Skills Preparation Practice

- a. Equipment and personal protective equipment
- b. Hose evolutions and fire attack
- c. Wildland fire fighting methods and protocols
- d. Hazardous materials methods and protocols

4. State Required Fire Fighter 1 Psychomotor Skill Testing

- a. PPE/SCBA Don and doff
- b. Structure fire attack
- c. Perform forward hose lay
- d. Lift, carry and raise an extension ladder single fire fighter

5. State Random Fire Fighter 1 Psychomotor Skill Testing

- a. Three randomly be selected skills will be out of 67 learned randomly chosen skills assigned by State Fire Training will be tested

6. State Required Wildland Fire Fighter 1 Skill Testing

- a. Don and doff wildland personal protective equipment
- b. Deploy fire shelter lying down method
- c. Assume the safe position for an air tanker drop
- d. Perform progressive hose lay – two person 500 feet

7. State Random Wildland Fire Fighter 1 Skill Testing

- a. 2 out 50 learned randomly chosen skills assigned by State Fire Training will be tested

8. State Required Hazardous Materials Skill Testing

- a. Identify hazardous materials, their potential hazards and appropriate personal protective equipment.

9. State Random Hazardous Materials Manipulative Skill Testing

- a. 1 out 26 learned randomly chosen skills assigned by State Fire Training will be tested

10. Written Final Summative Examination

Instructional Methods:

- Lecture
- Lab
- Activity
- Problem-based Learning/Case Studies
- Collaborative Learning/Peer Review
- Demonstration/Modeling
- Role-Playing
- Discussion
- Computer Assisted Instruction
- Other (explain) _____

Textbooks:

Jones and Bartlett Firefighter Skills 3rd Edition (Navigate 2) Web enhanced textbook (E-textbook)
ISBN # 978-1-4496-7085-6 (2015)

Firefighter's Wildland Handbook (Tie, Williams) Deer Valley Press 3rd Edition ISBN # 1-931301-16-6
(2016)

Hazmat FRO Handbook by the IAFC/ CSTI or similar (2013)