

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Fire Protection Organization

Subject Area/Course Number: FIRE-101

Institutional Student Learning Outcomes

Implementation date: Spring 2007

The development of institutional SLOs is overseen by the Teaching and Learning Project in collaborations with the General Education Committee, the Occupational Education Committee, the Developmental Education Program, the Student Services Advisory Committee, and the faculty and staff representing the Library & Learning Support Services.

Check the institutional student learning outcomes (or category of outcomes) below that are reflected in your course:

- General Education SLOs (Recommended by GE Committee)**
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.
- (Each of the above student learning outcomes for the general education program has a written explanation with illustrations and examples of its application within courses, as well as specific assessment criteria. Consult the GE program information pages.)
- Occupational Education SLOs (Recommended by Occupational Education Committee)**
At the completion of the LMC occupational certificate or degree, a student will:
1. Be academically prepared to **obtain an entry-level or a mid-level position** in their industry.
 2. Apply **critical thinking** to research, evaluate, analyze and synthesize information.
 3. Demonstrate strong **communication skills** (written and/or oral) and **interpersonal skills** (customer service and team work).
 4. Appropriately apply **industry materials and technology**.
 5. Demonstrate the skills and knowledge necessary to take and pass **certification exams** for career **advancement** in their industry.
- (Individual certificates or degree programs in occupational education may adopt some or all of these SLOs. Please check all those that apply to this course.)
- Developmental Education SLOs (Recommended by Developmental Education Committee)**
At the completion of the LMC Developmental Education Program, a student will:
1. Demonstrate the skills necessary for the first transfer level courses in English and Math or for the English and Math competencies for the Certificate of Achievement.
 2. Think critically to construct meaning and solve problems.
 3. Read with comprehension.
 4. Communicate effectively both in writing and orally.
 5. Demonstrate the characteristics, habits, and attitudes of an effective learner.
- Student Services SLOs**
1. LMC students will demonstrate proficiency in the use of college on-line services.
 2. LMC students will demonstrate proficiency in self-advocacy.
- Library and Learning Support Services SLOs**
LMC students utilizing various Library and Learning Support Services will:
1. access and effectively utilize available campus Library and Learning Support Services.
 2. apply knowledge learned and competencies gained from using Library and Learning Support Services to academic coursework and assignments.
 3. demonstrate information competency skills needed to meet the research demands of academic course work and life long learning.

None of the Above

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Program-Level Student Learning Outcomes (PSLOs)

Identify the program (eg. Nursing, Engineering), major (eg. Music, Chemistry), or sequence of courses (eg. ESL) to which this course belongs. List 3-8 over-arching or broad student learning outcomes for the program, major, or course sequence that this course is designed to help students attain.

Implementation date : Spring 2007

Fire 101 is the first in a sequence of six (6) classes that make up the Fire Technology Program. Students can graduate this discipline with an Associates of Science Degree in Fire Technology.

Students who have completed the Fire Technology Program at LMC will be able to ;

- PSLO 1. apply their knowledge of fire chemistry, fire prevention , fire terminology and fire tactics to identify potential fire and life safety fire problems in society.
- PSLO 2. demonstrate their ability to perform research of current fire problems as well as analyze and interpret fire data.
- PSLO 3. outline an existing fire departments organizational structure and chain of command
- PSLO 4. communicate effectively within the profession of firefighters
- PSLO 5. analyze the effects of current firefighting principles on society as well as the environment.
- PSLO 6. judge the effects of current fire control systems on society and industry
- PSLO 7. use the techniques, skills and firefighting principles necessary for employment

Course-Level Student Learning Outcomes (CSLOs): What abilities will the student have at the end of this course?

List 3-8 over-arching or broad student learning outcomes for this course. These are the course "objectives" written in terms of what the student will know or be able to do at the end of the course. Title V requires that courses for Associate Degree credit must have SLOs that "reflect critical thinking and the understanding of application of concepts determined by the curriculum to be at college level". Relate these course-level SLOs to the program-level SLOs and/or Institutional SLOs, as appropriate.

Please refer to the Curriculum Handbook for more information on how to complete this section and for the Curriculum Committee's criteria for evaluating this section of the course outline.

At the end of Fire 101, the successful student will be able to :

- CSLO 1. Compare the different career paths within the fire service organization in order to make sound career choices. (PSLO 2)
- CSLO 2. List, explain and demonstrate use of, basic fire terminology used in the fire service. (PSLO 1 and 2)
- CSLO 3. Identify unsafe situations and apply fire safety techniques used in the field. (PSLO 3)
- CSLO 4. Explain the basic characteristics of the four (4) classes of fire. (PSLO 2)
- CSLO 5. Recognize the signs and symptoms of backdraft, flashover and other thermal conditions. (PSLO 3)
- CSLO 6. To demonstrate that a student can identify and compare historical fire events and how those events shape the modern day fire service . (PSLO 3)

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CSLO Assessment Criteria:

- CSLO 1.** To demonstrate that a student can discuss and present the different job descriptions within a fire department organization. In order to do so the student will 1) visit a bay area fire department; 2) diagram their organizational chart ; 3) lead a class discussion based on their findings; 4) complete a multiple choice examination that will require students compare the different job titles and descriptions. ITEMS 1 and 2 will be formally assessed by a written research paper. The paper must includes information that reflects the depth and insight gained as a result of personal contact and observations It will also profile all the items in a given survey of key points.. ITEM 3 will be informally assessed in the classroom setting using the following criteria: The oral presentation should demonstrate rapport and interaction with classroom audience. They should demonstrate good eye contact, clarity of information and purpose to their message. ITEM 4 will be formally assessed with a multiple choice examination that contains questions that will require the student to indicate positions and rank structure within a minimum of 70%
- CSLO 2.** To demonstrate that a student defines and explains fire service terminology and be able to communicate with their peers in said work environment.. In order to do so the student will 1). participate in weekly discussion. 2). make two oral presentations based on material obtained in trade articles and magazines. 3). correctly interpret task assignments within the Incident Command System. 4) complete a multiple choice examination that will require the student to identify fire service terminology. ITEMS 1 and 2 will be formally assessed in the classroom when students present their findings from reading assigned trade articles. Their presentation should demonstrate the use of correct and relevant fire service terminology. It should reflect an accurate summary and interpretation of the subject matter in the trade article ITEM 3 will be informally assessed in the classroom in the following way .Given a description of the Incident Command System, students will correctly describe the chain of command structure as well as accurately interpret scenarios using correct terminology. ITEM 4 will be formally assessed with a multiple choice examination which must be completed within 70% accuracy
- CSLO 3.** To demonstrate that the student can explain the 4 classifications of fire and use this information to identify fire conditions as well as unsafe conditions. In order to do so the student will 1). participate in weekly discussions. 2) identify fire conditions in fire videos and slide programs. 3) identify backdraft and flashover conditions. ITEM 1 will be informally assessed in the classroom using discussions that will accurately identify those situations which indicate an immediate danger to life and health situation. ITEMS 2 and 3 will be formally assessed with a multiple choice examination that contains questions that will require the student to indicate correct fire conditions and safety awareness within 70 % accuracy
- CSLO 4 .** To demonstrate the ability of a student to identify significant historical events that have molded today's fire service. In order to do so students will asked to 1). describe the timing of these events and 2) what items within the events triggered change within the fire service. These types of change can be identified in 2 columns requiring the student to match events with times / changes. ITEMS 1 and 2 will be informally assessed in the classroom during classroom discussions. ITEMS 1 and 2 will also be formally assessed with a matching exam that will require the student to match the correct fire event with significant times and changes made within the fire service. The matching exam will be completed with a minimum of 70 % accuracy

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For each CSLO, list the assessment instrument/s that will be used to evaluate student achievement of the CSLO and briefly explain how the instrument provides students an opportunity to demonstrate the skills and abilities described in the CSLO.

In addition, for a degree applicable course, give an example of an essay question or a problem-solving exercise and indicate which CSLO it is assessing.

Homework Assignments. The Student is responsible to read five (5) Chapters out of the handbook and must complete the short answer questions at the end of each of the five (5) Chapters. This exercise supports class lectures and requires the student to improves their reading and comprehension skills

Quizzes : *There are 5 quizzes during the course. Each quiz covers a chapter in the handbook as well as lecture notes covering those topics in question .One of the quizzes is a take home group quiz in order to further develop teamwork.*

Midterm and Final Exams : *The midterm and final exams cover materials offered during the first half and second half of the course. The learning outcomes can be monitored and evaluated as a result of these exams.*

Class Project : *Each student must submit a written research paper profiling a local fire department. The student must also make an oral presentation of their findings. This technique supports group dynamics and allows students to learn from one another.*

Class Discussion: *Students are encouraged to participate in weekly current event discussions as well comment on Trade magazine articles. Current events involving emergency situations assists the student in learning more about actual fire service strategy and tactics.*

Notes: Notes taking is strongly recommended. Each student is placed on a team to share notes and retrieve lost or missed notes.

	Written Assignment	In-Class Discussion	Weekly Quiz	Midterm	Oral Presentaion	Final Exam
CSLO 1	x	x	x	x	x	x
CSLO 2		x	x	x	x	x
CSLO 3		x	x	x		x
CSLO 4		x	x	x		x

Sample Question/Problem

CSLO 3) Backdraft is a very dangerous situation that firefighters may face in their career. In early times firefighters called a backdraft a smoke explosion. What are the signs and symptoms of a backdraft?

Method of Evaluation/Grading: Explain how “the course provides for measurement of student performance in terms of stated course objectives”, Title V. (LMC calls “objectives”, CSLOs.)

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A- Level Students perform in the ninety (90) percentile. They are extremely well organized, turn all their work in on time and attend class weekly.

B-Level Students perform in the eighty (80) percentile. They are well organized, turn in most of their work in on time and attend class regularly.

C-Level Students perform in the seventy (70) percentile. Their organizational skills are adequate and they turn in some of their work upon request by the instructor. Their attendance is in need of improvement.

D- Level Students perform in the sixty (60) percentile. They are disorganized and the work that they turn in is usually incomplete. They tend to miss the maximum allowed classes

F-Level Students are those that do not complete class assignments, do not attend class, and fall into the area of less than sixty percent (< 60)

Methods of Evaluation:

Class Attendance and Participation.	Worth 150 points	20%
Homework	Worth 100 points	15%
Quizzes	Worth 100 points	15%
Midterm	Worth 50 points	7%
Project	Worth 100 points	15%
Current Events	Worth 100 points	15%
Final Exam	Worth 100 points	15%

Total ; 700 points

Course Content: Provide the detailed content of the course.

Orientation to the Course	2 Hours
Fire Service Certificates and Degree requirements, Fire Academies , and Training	3 Hours
Fire Service History	3 Hours
Fire Fighter Safety	3 Hours
Fire Behavior	3 Hours
Fire Terminology, Fire Ranks and Insignias	3 Hours
Firefighting Personal Protective Equipment	3 Hours
Apparatus and Equipment	3 Hours
Fire Extinguishers	3 Hours
Fire Station Tours	3 Hours
Firefighting Foam	2 Hours
Water Supply	3 Hours
Sprinklers and Standpipes	3 Hours

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Interview Techniques and Mock Boards	3 Hours
Hiring Practices	3 Hours
Class Projects/Presentations	6 Hours
Testing/Exams	5 Hours

Instructional Methods: Check all the instructional methods that will be used in teaching this course. Keep in mind that the method of instruction and activities should relate to the CSLOs.

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

Textbooks: Indicate name of text (or list of text choices), author, publisher and date of publication. Date of publication has to be within 5 years of authoring course outline. For degree applicable courses, text should be **College Level**. Include sample pages and the contents page of the instructor designed module if it is the only text.

Firefighter's Handbook : Essentials of Firefighting and Emergency Response (Delmar) 2004
Fire Engineering Magazine
National Fire Protection Administration Standards
IFSTA References