

**Course Outline**

**COURSE:** JLE 128                      **DIVISION:** 50                      **ALSO LISTED AS:**

**TERM EFFECTIVE:** Fall 2015                      **Inactive Course**

**SHORT TITLE:** POLICE CHEMICAL AGT

**LONG TITLE:** Police Chemical Agents

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
.5	18	Lecture:	8	144
		Lab:	0	0
		Other:	0	0
		Total:	8	144

**COURSE DESCRIPTION:**

This course of instruction includes types of non-lethal chemical agents, methods of dispersal and delivery, safety, first aid, tactics, use of gas masks and applicable penal codes sections. This course meets the requirements of PC 13514. This is a pass/no pass course. May be repeated one time for credit.  
**ADVISORY:** JLE 100, AJ 106, AJ 108

**PREREQUISITES:**

**COREQUISITES:**

**CREDIT STATUS:** D - Credit - Degree Applicable

**GRADING MODES**

P - Pass/No Pass

**REPEATABILITY:** R - Course may be repeated  
Maximum of 99 times

**SCHEDULE TYPES:**

02 - Lecture and/or discussion

**STUDENT LEARNING OUTCOMES:**

1. Identify the proper use and application of non-lethal chemical agents.  
Measure: Discussion, role playing, exam  
ILO: 2, 7

2. Demonstrate the use of the gas mask

Measure: performance, demonstrate

ILO: 3,2,7

3. Identify the different types of non-lethal chemical agents

Measure: discussion, quiz

ILO: 1,2,7

4. Specify applicable penal code sections associated with use of non-lethal chemical agents

Measure: quiz, discussion

ILO: 2,1,3

5. Demonstrate the proper care in cleaning of mask interior and exterior surfaces.

Measure: performance, discussion

ILO: 1,7

6. Recognize proper methods of delivery during chemical agent tactics.

Measure: performance, role play

ILO: 6,2

7. Exposure to a nonlethal, aerosol chemical agent and exposure to a nonlethal, riot control chemical agent

Measure: performance

ILO: 6

## **CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS**

Inactive course: 02/23/2015

7 Hours

### **I. Types of Chemical Agents**

Students will identify the types of chemical agents in order to effectively handle and deploy chemical agents and gas masks during class exercises.

A. CN (Chloracetophenone) - First Developed in 1869: Germany

1. Color Code
2. Odor
3. Point of Aim
4. Transfer to Officer
5. Effects

B. CS (Orthochlorobenzalmalonitrile) - U.S. Army in 1928

1. Color Code
2. Odor
3. Point of Aim
4. Transfer to Officer
5. Effects

C. OC (Oleoresin Capsicum) - Edgewood Arsenal in 1920

1. Color Code
2. Odor

3. Point of Aim
4. Transfer to Officer
5. Effects

D. DM (Diphenylamine Chloroarsine) - American Chemical Warfare

Service

- 1928

1. Known as "Knockout Gas" - Licorice smell
2. United Nations Banned Exportation in 1956
3. Illegal in California
4. Used by Military in Vietnam

E. MACE (Phenylchloromethylketone) - Developed in 1960 by GOEL

1. On market for 7 - 8 years before anything else
2. Became generic name for hand-held devices
3. Most widely used by Police Agencies as non-lethal weapon

F. HC (Hexachlorethane = Smoke)

1. Color Code - Yellow
2. Used as concealment and agent carrier

Homework: Reading assignment prior to class

II. Applicable Penal Code Sections

Students will review terminology and state the statutory requirements for the possession and use of chemical agents.

- A. 12401 P.C.
- B. 12403 P.C.
- C. 12403.1 P.C.
- D. 12420 P.C.
- E. 12421 P.C.
- F. 12422 P.C.
- G. 12450 P.C.
- D. 12420 P.C

Homework: Reading/memorization of codes

III. Methods of Delivery

Students will identify methods used to deploy chemical agents and how they can be affected by certain environmental and physical conditions.

- A. Three Forms of Chemical Agents
  1. Solid
  2. Micropulverized
  3. Liquid
- B. Methods of Dispersion (Advantages/Disadvantages)
  1. Expulsion
  2. Pyrotechnic
  3. Fog
  4. Liquid
- C. Delivery Systems
  1. Grenades
  2. Projectile Rounds
  3. Other Dispensers

Homework: Reading assignment prior to class

IV. Safety Concerns

Students will apply the guidelines for safely carrying, drawing, and deploying hand-held canisters of chemical agents during class exercises.

- A. Grenades
  - Pin Removal
  - Underhand Deployment
  - Approximately 3 second fuse delay
- B. Gas Guns
  - Eye Protection needed
  - Blast = 10' to 15'
  - Projectiles = 275 F.P.S. - Barricade Penetrating
- C. Grenade Launchers
  - Hooked to many weapons
  - 125 yard range
- D. Pepper Foggers
  - Maintenance problems

Homework: Reading assignment prior to class

#### V. Tactics

Students will describe the capabilities, exposure symptoms, and decontamination procedures of chemical agents. They need to examine the physiological and psychological effects in order to safely and effectively apply the correct chemical agent used in a given situation.

- A. Riot Control
  - Avenue of escape
  - Wind direction
  - Size of crowd
  - Area to be covered
- B. Barricaded Suspects
  - Dwelling construction
  - Size of rooms
  - Avenue of escape
- C. Individuals
  - Distance
  - Mental condition
  - 11550 or 647f

Homework: Reading assignment prior to class

#### VI. First Aid

Students must know and apply decontamination procedures that should be followed after a chemical agent has been used during class exercises.

- A. Oxygen level below 16 - 21% is lethal
- B. Remove from effected area
- C. Do no rub eyes or skin
- D. Face into the wind and/or flush with water

Homework: Reading assignment prior to class

#### VII Gas Mask Techniques

Students must apply the proper procedures when using gas masks through inspection, proper fit and cleaning and proper storage.

- A. Pre-use inspections
  1. Check appearance of entire mask for damage
  2. Check for missing, cracked or scratched lenses
  3. Check for condition of intake and exhaust valves/covers

4. Check for worn or broken head straps
5. Check for appropriate filter and expiration date, if known
6. Check to see if mask is appropriate size, if applicable

B. Fitting the mask

1. Loosen all adjusting straps
2. Place chin in mask chin rest
3. Raise head harness over back of the head
4. Tighten head straps as appropriate from bottom to the top
5. Check for air tight fit by completely blocking air intakes with

palms of the hands, inhaling deeply, and holding breath for 10 seconds. If the mask pulls against the face and remains there while holding the breath, proper fit is indicated.

6. If proper fit does not occur, repeat the tightening of the head harness. If leaks continue, inspect mask and replace if necessary.

C. Clearing the mask

1. To clear the mask, cover exhaust valve outlets and blow out vigorously several times
2. Have each student demonstrate and practice masking, clearing and removing

D. Cleaning the mask

1. After exposure, wipe mask interior and exterior surfaces with a soft cloth dipped in water and detergent taking care to avoid water contacting the mask filters. Wipe dry.

E. Storage of the mask

1. Inspect mask at least twice each year to verify that it is serviceable
2. If mask is found to be defective, it should be repaired or replaced
3. The mask should be stored in a protective container protecting it from the elements

Homework: Reading assignment prior to class

1 Hour

VIII. Simulation Activities

Each student will participate in an instructional activity to reinforce techniques learned to safely and effectively manipulate the gas mask and deploy a chemical agent. .

A. Each student will participate in a simulation that requires exposure to a nonlethal, riot-control chemical agent. The simulation must involve the following:

1. Exposure to a nonlethal, riot control chemical agent
2. Proper use of a gas mask including the pre-inspection, fitting and clearing of the mask
3. Decontamination techniques

B. Each student will participate in a simulation that requires exposure to nonlethal, aerosol chemical agent. The simulation must involve the following:

- 1 Exposure to a nonlethal, aerosol chemical agent
2. Proper care, maintenance and deployment of a nonlethal,

aerosol chemical agent

3. Decontamination techniques

**METHODS OF INSTRUCTION:**

Lecture, discussion, field training and demonstration

**METHODS OF EVALUATION:**

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 0% to 0%

If this is a degree applicable course, but substantial writing assignments are not appropriate, indicate reason:

Course primarily involves skill demonstration or problem solving

CATEGORY 2 -The problem-solving assignments required:

Percent range of total grade: 0% to 0%

CATEGORY 3 -The types of skill demonstrations required:

Percent range of total grade: 35 % to 55 %

Class Performance/s

Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:

Percent range of total grade: 25 % to 45 %

Multiple Choice

True/False

Completion

Other: demo of gas mask and use of chemicals

CATEGORY 5 - Any other methods of evaluation:

Percent range of total grade: 0% to 0%

**REPRESENTATIVE TEXTBOOKS:**

Required:

POST, Instructor handouts, POST

Reading level of text: 12th grade      Verified by: Yueng

**ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 200730  
UC TRANSFER:  
Not Transferable

**SUPPLEMENTAL DATA:**

Basic Skills: N  
Classification: I  
Noncredit Category: Y  
Cooperative Education:  
Program Status: 1 Program Applicable  
Special Class Status: N  
CAN:  
CAN Sequence:  
CSU Crosswalk Course Department: JLE  
CSU Crosswalk Course Number: 128  
Prior to College Level: Y  
Non Credit Enhanced Funding: N  
Funding Agency Code: Y  
In-Service: Y  
Occupational Course: B  
Maximum Hours:  
Minimum Hours:  
Course Control Number: CCC000242423  
Sports/Physical Education Course: N  
Taxonomy of Program: 210500