

Lassen Community College Course Outline

GSS-89 LEAS Design and Repair Full Autos, Phase I

1.0 Unit

I. Catalog Description

An advanced course designed to train law enforcement armorers in the repair and maintenance of fully automatic firearms.

Recommended Preparation: Successful completion of ENGL105 or equivalent multiple measures placement.

Does Not Transfer to UC/CSU

6 Hours Lecture, 12 Hours Outside of Class, 34 Hours Lab, 52 Total Hours of Instruction Scheduled:

II. Coding Information

Repeatability: Take 1 Time

Grading Option: Pass/No Pass Only

Credit Type: Credit - Degree Applicable

TOP Code: 099900

III. Course Objectives

A. Course Student Learning Outcomes

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

Obtain or update armor skills necessary for current position or further advancement.

B. Course Objectives

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

1. Demonstrate proper disassembly, cleaning, and reassembly of duty firearm.
2. Regulate optical or open gunsights for duty/combat.
3. Explain and demonstrate infield serviceability function tests.

IV. Course Content

A. Safety in the shop

1. Power tools
2. Bench tools

B. Firing mechanisms

1. Fixed firing pins
2. Bolt actuated firing pins
3. Striker fired guns
4. Hammer fired guns

C. Sear systems

1. Positive and negative engagements
2. Engagement depth
3. Hardness

D. Disconnect systems

1. Function
2. Timing

- E. Auto sears
 - 1. Function
 - 2. Timing
- F. Ramps
 - Shape, angle, finish, $B=A+1/2 A$
- G. Top Ramps
 - Hoods, cartridge guides, springs
- H. Headspace
 - 1. What it is, how it's measured
 - 2. Correction of headspace
 - a. Barrel setback
 - b. Bolt movement
 - c. Chamber depth
 - d. Rim cut depth
- I. Extractors
 - 1. What they must do
 - 2. How they must fit
 - 3. Spring tension
 - 4. Rim cut depth
- J. Magazines
 - 1. How they work
 - 2. Height
 - 3. Lip configurations
 - 4. Spring tension
- K. Cyclic rate and balancing
 - 1. Bolt weight
 - 2. Spring tension
 - 3. Reliability
 - 4. Bolt travel

V. Assignments

A. Appropriate Readings

Students will be assigned readings from various instructor handouts and manufacturer's manuals.

B. Writing Assignments

Students will be required to keep a journal of notes.

C. Expected Outside Assignments

See 'A' and 'B' above.

D. Specific Assignments that Demonstrate Critical Thinking

Students will demonstrate critical thinking by evaluation of complex working mechanisms and relational functions to diagnose mechanical failure and to plan and implement repair alternatives to restore functioning. Students will evaluate and critique results.

VI. Methods of Evaluation

Students will be evaluated by thoroughness of repair and class participation.

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

Lecture, Laboratory, Demonstrations

VIII. Representative Texts and Supplies

Instructor Handouts, Industry Journals, Manufacturer's Suggested Readings

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active

Original Approval Date: 3/26/1996

Revised By: John Martin

Curriculum/Academic Standards Committee Revision Date: 11/15/2022