Lassen Community College Course Outline

GSS-85 LEAS Design and Repair Smith & Wesson Revolvers 1.0 Unit

I. Catalog Description

Trains the student to fine tune Smith & Wesson revolvers to very close factory specifications, and to maintain, diagnose malfunctions and adjust or repair these malfunctioning revolvers.

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

Does Not Transfer to UC/CSU
6 Hours Lecture, 34 Hours Lab
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. Identify, disassemble and reassemble various models of Smith & Wesson revolvers.
2. Demonstrate various methods of altering hand timing and fit to ensure correct cylinder indexing.
3. Identify and demonstrate methods used to correct cylinder fit, chamber/bore alignment and proper forcing cone.

IV. Course Content

A. Safety in the shop
   1. Power tools
   2. Bench tools
B. Smith and Wesson revolvers
   1. Theory and function
   2. Frame sizes and models
C. Hand timing
   1. Slow and fast
   2. Timing pick-up
   3. Alteration of the window
   4. Correction of cramping

5. Correction of high pads
6. Ratchet fit

D. Cylinder fit
1. Moving back
2. Moving forward
3. Correcting bad notches
4. Correcting irregular ratchet pads

E. Firing pin fit
1. Shapes
2. Positive and absolute protrusion
3. Relationship to hole
4. Problems caused by headspace
5. Correction of oversized firing pin hole
6. Adjusting nose position

F. Ranging
Using a vise or arbor press

G. Adjusting point of impact
1. Indexing sight position in relation to the bore
2. Bent sights
3. Off plumb sights
4. Bent barrels
5. Barrels on different axis than frame

H. Triggers and Safeties
1. Transfer Bar
2. Hammer Block Safety
3. Double Action Sear
4. Single Action Sear
5. Trigger Sear
6. Trigger Nose/Cylinder Stop Relationship

V. Assignments

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

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 be evaluating the complex working mechanisms and relational functions to diagnose mechanical failure and to plan and implement repair alternatives to pland and implement repair alternatives to restore functioning. Students will evaluate and critique results.

VI. Methods of Evaluation

Students will be evaluated by demonstrating increasing speed and quality of work performed.

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, Demonstration

VIII. Representative Texts and Supplies

Instructor Handouts, Industry Journals, Manufacturer's Manuals

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active
Original Approval Date: 2/15/1988
Revised By: John Martin
Curriculum/Academic Standards Committee Revision Date: 10/16/2018