Lassen Community College Course Outline

GSS-135 Parkerizing 1.0 Unit

I. Catalog Description

A course designed to introduce the student to parkerizing, to produce a phosphate nonrusting finish on firearms. Surface preparation, mixing of chemicals, operations, techniques and controls. This course requires an additional fee of $19 to cover the costs of sandpaper (course, medium, fine, very fine, grits), emery cloth (course, medium, fine and very fine grits), sanding belts, polishing wheels and polishing compound, chemicals for Parkerizing process, degreaser, cleaning chemicals.

Does Not Transfer to UC/CSU
4 Hours Lecture, 8 Hours Outside of Class, 46 Hours Lab, 58 Total Hours of Instruction Scheduled:

II. Coding Information

Repeatability: Take 1 Time
Grading Option: Pass/No Pass Only
Credit Type: Credit - Not Degree Applicable
TOP Code: 095630

III. Course Objectives

A. Course Student Learning Outcomes

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

Prepare the chemical solution and the metal surfaces for parkerizing and parkerize one firearm.

B. Course Objectives

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

1. Demonstrate proper disassembly of project firearm.
2. Select parts for parkerizing process.
3. Describe and prepare surface finish.

IV. Course Content

A. Safety in the shop
   1. Power tools
   2. Bench tools
   3. Chemicals
B. Disassemble and surface preparation
   1. Disassemble and surface preparation
   2. Sanding
   3. Buffing
   4. Sand and bead blasting
C. Buffing wheels and buffing compounds
   1. Types of wheels
   2. Types of buffing compounds
D. Parkerizing process
   1. Basic chemical composition and controls
   2. Degreasing

3. Contaminates
4. Temperature ratio
5. Types of steel and how they react

V. Assignments

A. Appropriate Readings
Students will be assigned readings from instructor handouts, manufacturers instructions and various trade 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 designing and fabricating reassembly tools and selecting projects as they pertain to historical significance.

VI. Methods of Evaluation

Students will be evaluated on the quality and speed of work and the ability to increase this quality and speed.

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, demonstration, lab projects

VIII. Representative Texts and Supplies

Trade Journals, Manufacturers Instructions

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active
Original Approval Date: 5/3/1990
Revised By: John Martin
Curriculum/Academic Standards Committee Revision Date: 11/15/2022