

Lassen Community College Course Outline

GSS-136 Cold Rust and Niter Bluing

1.0 Unit

I. Catalog Description

A course designed to introduce the student to rust bluing finish on firearms. Surface preparation and use of chemicals and other appropriate equipment. Understanding control of equipment, chemicals and operating procedures. 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, degreaser, cleaning chemicals, chemicals for Cold Rust process, chemicals for Niter Bluing process.

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: 099900

III. Course Objectives

A. Course Student Learning Outcomes

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

Identify all safety rules for mixing, correctly mix the chemical solution, polish and prepare gun metal for rust bluing and apply first coat and correctly card.

B. Course Objectives

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

1. Explain the process of cold rust bluing.
2. Properly mix chemicals to make rust bluing solution.
3. Explain and demonstrate building a carding wheel.

IV. Course Content

A. Safety in the shop

1. Power tools
2. Bench tools
3. Chemicals

B. Disassemble and surface preparation

1. Disassembly-assembly tools
2. Sanding
3. Sand and bead blasting

C. Rust bluing process

1. Steps and procedures
2. Preparation of chemicals
3. Preparation of firearms
4. Degreasing of parts to be blued

5. Application of chemicals
6. Rusting of parts
7. Darkening of parts
8. Carding/scratching of parts
9. Neutralizing chemical action

V. Assignments

A. Appropriate Readings

Students will be assigned readings from various instructor handouts and trade journals.

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 while implementing the bluing processes.

VI. Methods of Evaluation

The student will be evaluated on class participation and completion of class assignments.

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, Manufacturer's Instructions and Suggested Readings

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active

Original Approval Date: 3/1/1990

Revised By: John Martin Faircloth

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