

# 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, 46 Hours Lab  
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: 08/20/2013

Instructional Program Review Date with no Revision: 03/25/2014