

**LASSEN COMMUNITY
COLLEGE NRA SUMMER
PROGRAM 2025**

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WELCOME!

Lassen Community College's Gunsmithing Program has been providing prepared, quality gunsmiths to the industry since the program's foundation in 1945 and is the oldest gunsmithing school in the United States. As an NRA affiliated Gunsmithing school, we also offer one and two week NRA Short Term Summer Gunsmithing Courses. Courses are

offered in Basic Machine Shop, Barreling, specific firearms platforms, Law Enforcement Armorers Schools, engraving, knife making, and metal finishes.

Lassen Community College is located in Susanville, a small mountain town in northeastern California. Outdoor activities are abundant, with the Sierra Nevada Mountains to the south, Cascade Range to the north, Lassen and Plumas National Forests to the west and The Great Basin, high desert country to the east. There are numerous streams and lakes available for fishing and boating, including the renowned Eagle Lake, only 20 miles away.

Finally, it is often quite warm this time of year, so you may want to bring a fan with you. You may want to bring a clamp-on, crookneck shop lamp for better illumination on close-up work. We are looking forward to an enjoyable and productive experience in the classroom and the shop.

LIVE AMMUNITION IS NOT PERMITTED IN THE CLASSROOM OR LAB

If you need to bring live ammunition for your firearms for the purpose of test firing, the ammunition shall be left in your vehicle until arrangements are made with your instructor for storage.

ANIMAL POLICY

No animals are allowed on campus with the exception of service dogs.

DORMS

Dorms are available for rent during the summer, for information about staying in the dorms, please contact the Housing Office at 530-257-6181 Ext.8879.

TOOL SOURCES

Brownells	800-741-0015	www.brownells.com
Midway	800-243-3220	www.midwayusa.com
MSC	800-645-7270	www.mscdirect.com
Modoc Steel	530-233-2655	(local steel supplier)

GSS 79 BASIC CORRECTIONAL ARMORER

Required Firearms

- Glock
- Remington 870 shotgun
- Ruger Mini-14 rifle
- Penn-Arms Launcher
- Colt AR-15 or Clone

Please bring at least one each of the above firearms and if you have more that are in need of repair bring them as well. Also, bring necessary replacement parts.

Recommended Tool and Materials List

- Toolchest or Toolbox with lock
- Ballpeen hammer- 2 or 4 oz.
- Bench block
- Pin punches 1/16 to 1/4 inch by 1/16 inch increments
- Screwdrivers- 6 assorted sizes one piece (Craftsmen or Stanley 100)
- Needle nose pliers
- Rawhide mallet – 8oz or heavier
- Drift punch - brass
- Safety glasses
- Stainless steel toothbrush
- Breakfree
- Toothpicks
- Q-tips
- Shop apron (optional)
- Dremel or Foredom tool with attachments (optional)
- Optivisor- (optional- very useful)
- Brownells Remington 870 Armorer's Kit
- Ruger Factory Mini-14 gauge Kit
- Clamp on desk lamp (optional)
- Dummy ammo for your firearms (no primers or powder)
- Feeler gauge set
- 12 gauge headspace gauge (optional)

Any other gauges, fixtures or special tools your institution has for the firearms you bring!

GSS 82 GENERAL GUNSMITHING

FIREARMS- Bring all firearms from the list below that are available to you:

- Remington 870, 1100 or 11-87 (mandatory)
- Smith and Wesson revolver (mandatory)
- Colt type 1911 auto pistol (mandatory)
- Colt double action revolver, Python, Official police, etc. (except Trooper III or V)

*Note: It is to your advantage to bring as many malfunctioning guns that you can.

TOOLS-

- 2-4 oz. ballpeen hammer
- Dial caliper, 0-6 inch
- Pin punch set
- Needle nose pliers
- Screwdrivers (minimum of 6 high quality such as Stanley 100 or Craftsman)
- Safety Glasses
- Bench Block
- Small Paint Brush
- Gun cleaning materials
- 6" flat bastard file with handle
- 8" mill smooth file with handle
- 6" or 8" three corner file with handle
- Honing stones, assorted shapes and sizes
- 6" steel rule
- Break-free or equivalent
- Cold blue
- Toothpicks
- Q-tips
- Any specific disassembly tools that may be needed for your firearms
- Dummy Ammunition for each firearm
- Dark sunglasses or welding goggles
- Lockable tool box for benchtop

Optional:

- Dremel or Foredom tool with attachments
- Optivisor or Bench Light

GSS 89 LEAS Full Autos

This 5 day class will cover Full Auto Firearms commonly seen in Law Enforcement today. It will also cover feeding, extraction, ejection and fire control systems of these firearms in detail. 1 unit.

****POST Certified** California**

SUGGESTED FIREARMS

H&K MP5- all variations including suppressed

M-16/M4- all variations

Ruger AC- series Mini-14's "Optional"

For law enforcement ONLY! Any full-auto you may wish to learn more about, any illegal full autos or suppressors that you need to familiarize yourselves with.

MAGS & AMMO ARE A MUST!

TOOL LIST

- Tool box you can lock
- Smooth jawed pliers
- Screwdrivers – high quality one piece (no two piece screwdriver sets)
- Assorted files with handles
- Needle file set
- 2 or 4 oz ballpeen hammer
- Pin punch set
- Dremel or Foredom tool (foot rheostat extremely helpful)
- Assorted grinding stones and small burrs "optional"
- Dial caliper
- Honing stones ½ x ½ x 6" medium and fine
- Bench mat or square of carpeting
- Gun cleaning equipment
- Breakfree or Gun oil
- Pliers – (Needle nose, standard and smooth jawed)
- Dummy rounds in calibers for your firearms
- Safety glasses
- Ear Muffs or plugs
- Assorted sand paper (150, 220, 320 grit)
- Shop rags
- Bench light, clamp on, with exterior light bulbs
- Cold blue
- Degreaser (denatured alcohol or mineral spirits)
- Round toothpicks
- Cotton Swabs and/or pipe cleaners
- All magazines used in your firearms or that have had any problems in your firearms

- Any other appropriate tools – specific for the firearms you bring
- Ammo for the firearms you bring (You will need a minimum of 300 rounds for the firearm you want to take to the range for a final)
- Any full auto or semi-auto firearms you want to work on or study
- Any extra parts that you feel you will need instruction as to the correct fitting procedures
- Armorer kits for M-16 style and HK style rifles if you have them
- .223 and 5.56 headspace gauges

GSS 94 HANDLOADING, BALLISTICS, AND TESTING

Gear list REQUIRED

1 Centerfire Rifle
 1-2Lbs Smokeless Gun Powder
 Min 100 projectiles (Bullets)
 Min 100 Unfired pieces of brass
 5 Fired cases
 Min 100 Primers
 1 Full Length resizer die (**SCHOOL HAS RCBS ROCKCHUCKER PRESSES**)
 1 Seating Die
 1 Shell Holder for case to be reloaded
 0-6" Dial Calipers
 Chamfer tool
 Primer Pocket deburring tool
 Case Lube
 A Current Edition Reloading Manual
 1" target spot

HIGHLY RECOMMENDED

Spotting Scope or Binos (We will be testing at 200yds)

OPTIONAL

Hornaday Headspace Comparator Bushing Set
 Hornaday O.A.L. Gauge and Modified case
 Hornaday Bullet Comparator and Inserts

Personal Reloading Press (Single Stage Only)
 Electric Powder scale
 Any other reloading components you would like to bring
 Chronograph

WE DO NOT RECOMMEND PURCHASING A RELOADING KIT UNTIL AFTER THE COURSE

GSS 95 Basic Law Enforcement Armorer School

This is a 5 day introductory course designed to train Law Enforcement officers to maintain department firearms to factory service levels. Firearms to be covered are Smith & Wesson revolver, Glock, Remington 870 shotgun, Colt AR series. 1 unit.

****California POST Certified**

Required Firearms

Glock

One or more Remington 870 shotguns

One J Frame S&W revolver

AR-15

If your Remington 870 ejector or spring is broken then bring the following parts:

Ejector spring, Remington 870

Ejector, Remington 870

Ejector rivets, Remington 870

Recommended Tool and Materials List

- Notebook and pen
- Tool chest or tool box
- Bench block
- Ballpeen hammer (2" or 4" oz)
- India stone 1/2 X 6 med (quality)
- Pin punches 1/16 -1/4" by 1/16
- Needle nose pliers
- Small spring pin punches (roll pin punches)
- Dial caliper 0-6"
- Jeweler screwdriver set
- Screwdrivers to fit your guns
- Rawhide mallet
- Drift punch brass

- Small paint brush
- Safety glasses
- Stainless steel toothbrush
- Gun cleaning material
- File cleaner
- File, # 2 cut 8" inches
- File, barrette, # 1 cut 4" inches
- S&W Revolver tool kit (optional)
- Shop apron (optional)
- File handles
- Dremel tool or Foredom tool with attachments (optional)
- Remington stock bolt wrench
- Remington forend nut wrench
- Remington ejector and spring riveting tools
- Remington shell latch staking tool
- Optivisor (optional)
- Bench light (optional)
- Feeler gauge set Brownells #606 950 252AN
- Any AR-15 specific tools you might have (don't purchase if you don't have it)
- 5.56 or .223 Remington "go, no go" and "field" headspace gauges

****Bring any and all of the firearms tools and gauges that you may have. We are especially interested in anything that you are not sure of its u**

GSS 98.09 COLOR CASE HARDENING

During this one week seminar, we plan to cover the fundamentals of the charcoal method of Color Case Hardening. The most dangerous aspect of this method is that you can easily get burned during the process, so safety is a primary concern during the class. Therefore, long sleeve shirts, long pants, and shoes or boots (no sandals), and safety glasses are required. Some form of head cover (hat) should be worn.

Due to the time involved in the process; waiting for furnaces to heat up and cool down, size of crucibles, etc., We would recommend that you bring one action ready to be colored (320 finish) and something else to work on while waiting (perhaps a 2nd action or a group of parts). After every student has colored one action/set of parts, then, and only then, will we begin doing the 2nd or more actions/parts. Please do not be offended if you not are able to do multiples, our goal is to make everyone successful in coloring while they are here. As time and equipment permits, we will keep running all week.

Provided:

- Furnace
- Charcoal & parts packing container (crucible)
- Tongs

MATERIALS AND EQUIPMENT:

- White Cotton Gloves
- 1 can acetone
- 1 roll paper towels
- 5 pair latex gloves
- 150, 220, 320, 400, 600 grain sand paper. (5 sheets each)
- 1/4 “, 3/8”, 1/2” wood dowel polishing mandrels
- 1ea. hard sanding block
- 1 roll 1” masking tape
- 1 notebook and writing instrument
- 1 gun polished (to begin on Monday) – student’s responsibility
- 1 or more other guns to work on.
- safety glasses (AZSI Z87)
- face shield (recommended but not mandatory)
- welding gauntlet gloves
- welding or ball cap

This process is time consuming; ovens take time to heat up. You can color case as many items as you would like, provided we have enough time. We will not color case oil hardening steel, so leave your Winchester Model’s 94 and 95 and rifle barrels at home

NOTE-Any metal preparation you can do before coming will save time during class. A 320 finish will be more than adequate but by no means necessary.

As instructors learn as much as students do for every class, we, as time permits, will experiment with the variables of color case hardening. I hope to try different quench times and temps, and possibly using minerals in the quench tanks, to enhance or emphasize certain colors.

GSS 112 MACHINE SHOP FOR GUNSMITHS

This **10 day** course will take the student through basic metal working on lathes, mills and support machinery. Use of precision measuring instruments, specialized gunsmith tools and gauges are taught as part of this course. This course is a prerequisite for barreling classes. **2 UNITS**

REQUIRED TOOLS:

- 0-6" Dial Caliper
- 6" metal rule
- 2-4 oz. ball peen hammer
- 1 can layout fluid (Dykem)
- 10" mill file, fine or second cut, WITH HANDLE
- Scribe
- Steel protractor (machinists, not combination)
- Hacksaw with blades
- 4 – 3/8" square HSS lathe tool bits
- #3 Center drill
- Thread pitch gauge
- Calculator
- 60° center gauge
- Thread cutting oil
- Small paint brush
- Shop apron (optional)
- Small oil can
- Pliers or vise grips
- 6" or 8" adjustable wrench
- Assorted screwdrivers
- Small honing stone
- Complete set of allen wrenches (SAE and Metric)
- Minimum of 5 shop rags

IF YOU ARE EXPERIENCED OR HAVE TAKEN THIS COURSE PREVIOUSLY, YOU MAY CHOOSE TO COMPLETE PROJECTS OUTSIDE OF THE BASIC COURSE ONLY WITH INSTRUCTOR APPROVAL.

GSS 114 BASIC RIFLE BARRELING

Prerequisite: Basic Machine Shop or experience. This 5 day class will include threading, chambering, headspacing, fitting and crowning barrels for common types of bolt-action rifles.
1 unit

TOOL LIST

- Dial caliper
- Depth micrometer set 0-2" (optional)
- Feeler gauge, tapered leaf
- Cleaning rod and patches
- Lathe tool bits (two 3/8" HSS tool bits)
- 6" steel rule
- 60 Degree center gauge
- # 3 or # 4 center drill
- A few assorted open end wrenches (7/16, 9/16, 1/2, 5/8,) or large adjustable wrench
- Some live ammo for the caliber of you rifle
- Safety glasses with side shield
- A receiver mandrel and bolt mandrel for your receiver (optional, can be made during machinshop class)
- Protractor
- Small calculator
- Allen wrench set to 3/8"
- Needle file set
- 5 – Shop rags
- 2" paint brush
- Emery strips, 1/2" wide, at least 3' feet long or sandpaper (240, 320, & 400 grit)
- 8"-10" smooth mill file with handle
- Action and Barrel to install

MATERIALS LIST

You should bring at least one pre-turned barrel blank (select a contour that you want) and a bolt-action receiver. Just in case you finish before the five-day class is over you may wish to bring another barrel and action to get started on. Please bring only bolt-action receivers for barreling.

We will have you preparing the actions by facing off the front of the action to square it up as well as lapping the locking lugs and possibly welding and re-drilling the firing pin hole. We will then have you thread, chamber, headspace and crown your barrel. There should be sufficient time to polish and blue your barreled action as well.

The school has a small selection of the most common caliber's reamers, however we strongly suggest you check ahead of time (4 weeks minimum) what is here. Often our students simply wish to use

their own reamer and headspace gauges in order to have identical chambers in several firearms. Please call if you have any questions.

GSS 116 STOCKMAKING-PHASE I

CLASS PROSPECTUS

- Tools
- Inletting Techniques
- Proper fit of different types of actions and barrels to stocks and forends.
- Inletting and installation of stock furniture

REQUIRED

Inletting Project—

- Barrel/action and a pre-carved stock OR
- Dakota type 'A' skeleton grip cap (Brownells #359-102-001) OR
- Dakota #1 two screw sling swivel bases (Brow.#359-111-001) OR
- Other projects with prior approval

REQUIRED TOOLS

- Prussian Blue (NAPA auto parts, maybe Brownell's)
- Rawhide Mallet #3 (Brown. #672-196-003)—OR--
- Softhead carvers mallet (Woodcraft #13T41 or #141039)
- Jerry Fisher inletting scraper—small (Brown.#310-150-001)
- Inletting guide screws and stockmakers handscrews if necessary for your project.
- Straight carving chisel, double bevel= #1 sweepX 8mm wide. Alternative =#1sweepx 10mm or a single bevel tool and we will grind it.
- Gouge = #8 sweep x 10mm. Alternatives = a 7mm wide gouge or a Fishtail gouge #8x10mm
- Gouge = #9 sweep x 5mm. Alts. = #9x4mm or #9x7mm or #9x5mm Fishtail

OPTIONAL TOOLS (Highly Recommended)

- Spoon Chisel = #1 sweep(straight) x 3mm. Alternate = #1 x 6mm.
- Skew chisel = 6mm wide.
- Gouge = #5 sweep x 10mm
- Beveled Edge Bench Chisel = 1" wide or at Sears, Ace, or Tru-Value Hardware stores.
- 4" or 6" sharpening stone, white Arkansas or a med. Grit
- I strongly recommend a work light. Also, an Optivisor if necessary for vision.

* You are not required to use the brand name chisel and gouges listed, but the sizes are required.

RECOMMENDED SUPPLIERS

- Brownells (800)741-0015
- Woodcraft (800)225-1153 (Pfeil-SwissMade Chisels)
- Wood Carvers Supply (800)284-6229 (Mastercarver or Lamp Brand Chisels)
- Mastercarver chisels are the best value.
- Western Gunstock Mfg. (831)688-5884
- Richards Microfit (818)767-6097

I recommend straight grained English Walnut. Claro ok. No laminate.

GSS 117 GTAW WELDING FOR GUNSMITHS

During this 5 day class you will learn different joint designs or common gun parts repair as well as tool fabrication. It will also cover the beginning of metallurgy commonly found in firearms, and how to determine what steel you are working with, and which type of filler rod to use. Metal prep and heat treat will also be discussed.

TOOL LIST

- Safety Glasses (ANZI Z87.1)
- Leather coat or heavy shirt
- 1/16" 2% Thoriated tungsten (red) (recommended)
- Welding helmet with #10 filter lens, or adjustable shade
- Leather Gloves (Tig)
- Stainless steel tooth brush
- Wire Cutters
- Needle nose pliers
- Dremmel with carbide burrs 1/8" – 3/16", any other gouging bits
- 1 or more 1/16" drill bit
- Pens and spiral notebook

GSS 120 STOCKMAKING-PHASE II

Tool List

CLASS PROSPECTUS

1. Exterior shaping of stock
2. Wood preparation
3. Applying finish

- #49 Patternmaker's rasp-Boggs Tool Processing
- Small bottle of wood finish-Tru-oil, Permalyn, Pro Custom Oil, etc.
- 1 Sheet Each of 100, 150, 220 grit sandpaper
- 1 Sheet of 320 grit 3M Wet/Dry sandpaper
- ½ sheet of 400, and 600 grit Wet/Dry sandpaper

GSS 131 Alternative Metal Finishes

- Graduated cylinder- <https://www.cerakoteguncoatings.com/finishes/SE-147A/100ml-graduated-cylinder-glas/>
- HVLP spray gun- <https://www.cerakoteguncoatings.com/finishes/SE-273/pasche-hg08-hvlp-spray-gun/>
- 4 oz (tester size) of any color of Cerekote paint and hardener- <https://www.cerakoteguncoatings.com/finishes/?tab=coatings&cat=HSERIES>
- Disposable latex or nitrile gloves
- A spray bottle with acetone or other oil remover
- A quality dust mask or respirator
- Safety glasses, face shield, or goggles that meet ANSI Z87
- Bailing wire to hang parts
- At least one firearm (no double guns or quality revolvers), major firearm parts, or other wood, metal, or polymer object to be coated

Or

- 6 pint color Cerakote Ceramic Kit- <https://www.cerakoteguncoatings.com/finishes/1H-KITP6/6-pint-color-cerakote-ceramic/>
- Disposable latex or nitrile gloves
- A spray bottle with acetone or other oil remover
- A quality dust mask or respirator
- Safety glasses, face shield, or goggles that meet ANSI Z87
- Bailing wire to hang parts
- At least one firearm (no double guns or quality revolvers), major firearm parts, or other wood, metal, or polymer object to be coated

GSS 134 CAUSTIC BLUING

**Students will learn how to Caustic Blue their firearms. This will include firearms disassembly, metal preparation, chemical mixtures and techniques. This is a 5 day course.
1 unit.**

TOOLS

- Safety glasses with solid sideshields (AZSI Z87)
- Ballpeen hammer-2 oz or 4 oz.
- Plastic or rawhide mallet

- 1 Set pin punches
- Assorted screwdrivers to fit firearms you bring
- Gun cleaning kit
- WD – 40
- 1 bottle of Simple Green
- Roll of bailing wire
- 10 Inch fine cut flat file (with handle)
- sandpaper (220, 320, 400, 600 grit wet and dry)
- Shop rags
- One roll of paper towels
- Dust masks
- 1/4, 3/8, and 1/2 wood dowel polishing mandrels.

Recommended

- Rubber gloves (heavy black rubber)
- Shop apron

GSS 136 RUST AND NITER BLUING

- A Pre-polished Carbon steel barrel to rust blue. If you have no metal preparation/polishing experience, it is highly recommended for you to take the GSS 134 Caustic Bluing Class scheduled for 6/23/25-6/27/25, which teaches proper polishing/metal preparation techniques. If you have to polish a barrel during this class, you may not have enough time to complete the rust bluing process, which is quite time consuming.
- Safety Glasses
- Cotton Gloves
- Propane or MAP Torch
- Aluminum oxide sand paper in 220, and 320 grit.
- Shop Swabs Brownells part# 080-529-040 OR Cotton Balls
- Basic Hand tools to disassemble your firearm/barrel if needed.
- Acetone
- Chemical resistant spray bottle for acetone
- Small carbon steel gun parts to niter blue. (Screws, pins, etc.)

GSS 148 ADVANCED CORRECTIONAL ARMORER

Required Firearms

- Remington 700 sniper rifle
- Colt AR-15 Rifle
- MP-5 submachine gun
- Glock Pistol
- Masterpiece Arms MPA

Recommended Tool and Materials List

- Tool chest or Toolbox with lock
- Ballpeen hammer- 2oz or 4 oz.
- Pin punches 1/16 to 1/4 inch. by 1/16 inch increments
- #1 roll pin punch
- Dial Caliper- 0-6 inch.
- Feeler gauge set
- Screwdrivers- 6 assorted sizes one piece
- Jeweler's screwdrivers to fit Remington 700 trigger group
- Rawhide mallet- 8 oz or heavier
- Drift punch - brass
- Chip brush- (1" paint brush)
- Safety Glasses
- Stainless steel toothbrush
- "Breakfree"- lube/cleaner
- "44-40" cold blue
- Toothpicks
- Q-tips
- Loctite (blue) # 242
- Shop apron (optional)
- Optivisor- (optional- very useful)
- Dummy ammo for your firearms
- Any parts you need to replace in your firearms
- Any other gauges your institution has for the firearms you bring
- Any color model paint- (to seal Remington 700 Trigger screws after adjustment)

- Range equipment (sandbags or bipods for sniper rifle, targets, stapler and staples, ear protectors and shooting glasses)
- Any specialized tool kits for your firearms

****Bring sufficient Test Ammo- for each firearm you bring!!! Ammo amounts are desired but not mandatory! This is per firearm!**

MP-5- 200 rds, Rem 700 -20 rds, Berretta 92 -40 rds, CAR-15- 200 rds.

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