

SHOOTING INSTRUCTION:

Pistol Shooting Fundamentals

- Pistol (plus spare pistol if you have one)
- 400-500 rounds of ammo minimum
- (5) Magazines (or as many as you have, go ahead and load them)
- Eye and ear protection
- Mag pouches
- Holster
- Clothing appropriate for weather (hand warmers if cold)
- Hydration/ nutrition
- Pen/ pencil/ notebook
- Anything else you normally bring to the range

AR-15 Shooting Fundamentals

- Carbine/ rifle (AR-15 preferred. AR-10, Ak47 and AK74 Also accepted)
- 400-500 rounds of ammo minimum
- (5) Magazines (or as many as you have, go ahead and load them)
- Eye and ear protection
- Mag pouches
- Holster
- Clothing appropriate for weather (hand warmers if cold)
- Hydration/ nutrition
- Pen/ pencil/ notebook
- Anything else you normally bring to the range

INTRODUCTORY LEVEL CLASSES:

While these classes are listed as introductory, do not mistake the high level of instruction that will be given. This simply means that prior experience is not a requirement.

Introduction to hand engraving class

90, 105, 120 degree gravers c-max, carbide, HSS, or glensteel

3 Graver holders from GRS 1/8" round or 3/32" sq. Based on what sized gravers you buy.

Quick change chisel handle from GRS 1/8" round or 3/32" sq. I suggest Sam Alfano's handle at GRS.

Handle for jewelers engraving (we will use this for bullino engraving)

Chasing hammer

Optivisor or similar hands free magnifier

Drawing notebook

Pencils

Binder or accordion file.

3m trimite wet and dry polishing paper

Bench lights

If you have further questions about tools please email engravingbysam@gmail.com or text 336-339-3372. Feel free to bring any other tools you may want to use or have questions about.

SOURCE LIST

Tira Mitchell's Hand Engraving Tools, Jewelry Tools and Stone setting tools engraver.com

Contenti Jewelry Making Tools | Contenti contenti.com

Home - GRS. GRS.com

Amazon.com. Spend less. Smile more. Amazon.com

Rio Grande Jewelry Supplies for Bench Jewelers, Designers, Retailers, Manufacturers, Educators. - RioGrande Riogrande.com

Tool Sharpener, Diamond Power hone, Gun and knife engravers | TW Designstwdesignshone.com

Other sites to try

Lindsay tools. Airgraver.com

Jantz supplies knifemaking.com

MSCdirect.com

Brownells.com

https://www.ottofrei.com

The Engraver's Cafe on Facebook may also have people selling tools and other resources.

OPTIONAL SUPPLIES

Sharpening fixtures such as the dual angle sharpener or the easy gravers from GRS.com. You are welcome to bring any sharpening fixtures you have.

Foldable jewelers magnifier.

Tablet/computers.

Students are welcome to bring additional tools they may find useful in the class.

Basic Stock Checkering

Gunstock Checkering

Instructor: Tim Carrick

TOOL LIST

Optivisor 2.5 Power

Checkering Set (Gunline or W.E. Brownell brand) (NO Dem-Bart tools!)

18 LPI!

Marks on Anything Pencil

347-125-000

Checkering Cradle (optional)

Scribe #343-100-001

6" ruler

Practice Stock (Scrap Stock)

Bench Light

Possible Sources

Boyds 605-996-5011

Gun Parts 914-679-2417

Brownells 800-741-0015

Midway USA 1-800-243-3220

We Brownell 858-695-2479

If you have any questions call Tim at 1-336-859-5273

Metal Engraving 101

- 90, 105, 120 degree gravers c-max, carbide, HSS, or glensteel
- 3 Graver holders from GRS 1/8" round or 3/32" sq. Based on what sized gravers you buy.
- Quick change chisel handle from GRS 1/8" round or 3/32" sq. I suggest Sam Alfano's handle at GRS.
- Handle for jewelers engraving (we will use this for bullino engraving)
- Chasing hammer
- Optivisor or similar hands free magnifier
- Drawing notebook
- Pencils
- Binder or accordion file.
- 3m trimite wet and dry polishing paper
- Bench lights

If you have further questions about tools please email engravingbysam@gmail.com or text 336-339-3372. Feel free to bring any other tools you may want to use or have questions about.

SOURCE LIST

Tira Mitchell's Hand Engraving Tools, Jewelry Tools and Stone setting tools engraver.com

Contenti Jewelry Making Tools | Contenti contenti.com

Home - GRS. GRS.com

Amazon.com. Spend less. Smile more. Amazon.com

Rio Grande Jewelry Supplies for Bench Jewelers, Designers, Retailers, Manufacturers, Educators. - RioGrande Riogrande.com

Tool Sharpener, Diamond Power hone, Gun and knife engravers | TW Designstwdesignshone.com

Other sites to try

Lindsay tools. Airgraver.com

Jantz supplies knifemaking.com

MSCdirect.com

Brownells.com

<https://www.ottofrei.com>

The Engraver's Cafe on Facebook may also have people selling tools and other resources.

OPTIONAL SUPPLIES

Sharpening fixtures such as the dual angle sharpener or the easy gravers from GRS.com. You are welcome to bring any sharpening fixtures you have.

Foldable jewelers magnifier.

Tablet/computers.

Students are welcome to bring additional tools they may find useful in the class.

Machine Gun 101

- Small ballpeen hammer (4-6 oz.)
- Small soft faced hammer (plastic or leather)
- Gunsmithing screwdriver set (Brownells Magna-tip or similar)
- Pin punch set (1/16-3/16)
- safety Glasses
- Ear Protection
- Notebook

Basic Lathe Operation

- 1 Safety Glasses
- 1 60 Degree Center Gauge
- 1 Inch Screw Pitch Gauge
- 1 10" or 12" Adjustable Wrench
- 2 ½" x ½' High Speed Steel Tool Bit Blank
- 1 #4 Center Drill (High Speed Steel)
- 1 6" Calipers
- 1 0-1" Micrometer
- 1 6" Steel Ruler
- 1 8" or 10" Mill Bastard Cut File
- 1 Inch and Metric Hex Key Set

Optional preferred: (will make your life much easier)

- 1 60 Degree threading tool
- 1 T10293 Grizzly 7 Piece Indexable Carbide Set 3/8"

AR-15 Armorers Course

Notebook and pen Safety glasses

All tools and firearms will be provided

Basic Gunsmithing: Shotgun

- Cleaning kit with brass bore brushes and patches
- Cleaning rod (single piece rods are preferred)
- Bore solvent
- Gun scrubber spray
- Nylon and brass brushes
- Gunsmith Screwdrivers: Brownell's Magna-tip or equivalent
- Pin Punches: 1/16th, 3/32nd, 1/8th, 3/16th, ¼"
- Small ballpeen hammer: 4-6 oz.
- Small soft faced hammer: Brownell's or equivalent
- 6" mill smooth file
- Small tweezers
- Small needle nose pliers
- Dental Pick
- Small gun cleaning kit
- Gun oil
- Gun grease
- Bench mat
- Small plastic bench block
- Clear plastic shoe boxes for storing parts while guns are disassembled
- 1 roll of shop towels
- 1-3

firearms for repair ○ Notebook and Pen for taking notes **Optional:**

- Firearms assembly manuals (NRA or Gun Digest)
- Exploded Drawing Manual ○ Roll Pin Punch set
- Non-Marring Punch set (brass or Delrin) ○
- Parallel Jaw Pliers ○ Pin Vise

Basic Gunsmith Tool Making

- Safety Glasses
- 60 Degree Center Gauge
- Inch Screw Pitch Gauge
- 10" or 12" Adjustable Wrench
- Center Drills (High Speed Steel)
- 6" Calipers
- 0-1" Micrometer
- 6" Steel Ruler
- 8" or 10" Mill Bastard Cut File
- Inch and Metric Hex Key Set
- 60 Degree threading tool
- T10293 Grizzly 7 Piece Indexable Carbide Set 3/8"
- End mills HSS or Coated HSS .250, .375, .500
- Drill bits (1/16th thru 1/2)
- Edge Finder
- Starret 135 A Level
- Dykem
- 6" Rule
- Safety Glass

1911 Essentials

1911 Essentials

You should bring **one or more complete 1911 pistols** to work on. Problem pistols are welcome, they make for good classroom discussion. Please bring the sights you wish to install (if you plan to install sights). Please bring the hammers, sears and trigger job related parts you wish to install.

This class is about refining your knowledge and experience to make your own pistol improvements. Show and tell is encouraged. You will be supplied with operational theory, instructor support, a place to work, use of large machines, end mills, chamber

reamers, hammer/sear fixtures, sight pusher and so forth. *Please do not plan complicated sight installations unless you possess a bit of milling machine experience.* Please feel free to contact instructor with questions or substitutions etc.

Please bring the following **tools and materials**:

1911 or 2011 style handgun(s)

Sights for installation on your pistol (optional)

Quality fire control parts for trigger job (hammer, sear, disconnecter)

Recommended parts: Cylinder and Slide, EGW, STI, Extreme Engineering

safety glasses for shop and shooting range ear protection for range ammunition

for test firing your handgun Optivisor #5 255-005-000 (Brownells) bench block

punches: 1/16, 3/32, 1/8, 5/32

hex wrenches: .050, 1/16", 5/64", 3/32", 1/8", 5/32", 3/16"

rawhide mallet 672-196-003 (Brownells)

ball peen 4-8 oz. hammer ¾ masking

tape black Sharpie pen barrel bushing

wrench 6" calipers dial or digital

dremel type rotary tool with Cratex polishing attachments files,

small flat and small round screwdriver set or equivalent 080-

000-444 (Brownells) stone fine aluminum oxide roughing 657-

246-246 (Brownells) stone medium fine ceramic finishing 080-

721-604 (Brownells) link set 965-142-000 or 100-003-

281 (Brownells) recoil springs #9-11 for 9mm, #12-14 for .40,

#14-18 for .45ACP mainspring 18-20 lb. EGW extractor

(optional)

EGW extended ejector (optional)

Basic Gunsmithing: Pistol

- Gunsmith Screwdrivers: Brownell's Magna-tip or equivalent
- Pin Punches: 1/16th, 3/32nd, 1/8th, 3/16th, 1/4"
- Small ballpeen hammer: 4-6 oz.
- Small soft faced hammer: Brownell's or equivalent
- 6" mill smooth file
- Small tweezers
- Small needle nose pliers
- Dental Pick
- Small gun cleaning kit
- Gun oil
- Bench mat
- Small plastic bench block

- Clear plastic shoe boxes for storing parts while guns are disassembled ○ 1 roll of shop towels ○ 1-3 firearms for repair ○ Notebook and Pen for taking notes **Optional:** ○ Firearms assembly manuals (NRA or Gun Digest) ○ Exploded Drawing Manual ○ Roll Pin Punch set
- Non-Marring Punch set (brass or Delrin) ○ Parallel Jaw Pliers
- Pin Vise

Basic Gunsmithing: Rifle

- Gunsmith Screwdrivers: Brownell's Magna-tip or equivalent
- Pin Punches: 1/16th, 3/32nd, 1/8th, 3/16th, 1/4" ○ Small ballpeen hammer: 4-6 oz. ○ Small soft faced hammer: Brownell's or equivalent ○ 6" mill smooth file ○ Small tweezers ○ Small needle nose pliers ○ Dental Pick ○ Small gun cleaning kit
- Gun oil ○ Bench mat ○ Small plastic bench block
- Clear plastic shoe boxes for storing parts while guns are disassembled ○ 1 roll of shop towels ○ 1-3 firearms for repair ○ Notebook and Pen for taking notes **Optional:** ○ Firearms assembly manuals (NRA or Gun Digest) ○ Exploded Drawing Manual
- Roll Pin Punch set
- Non-Marring Punch set (brass or Delrin) ○ Parallel Jaw Pliers ○ Pin Vise

Build Your Own: AR-15

Instructor: Jacob Porter. porter.s.jacob@gmail.com

Student needs to provide ALL AR parts, components and accessories for the class. Suggested tools include basic roll pin and dowel pin punches, hammers, pliers, driver bits and handles (Brownell's Magna Tip) Adjustable wrench and Allen Key set. Ar specific tools will be available but student can bring any that they have including

upper/lower receiver vise blocks, barrel nut / multi- wrenches, torque wrenches (Ft AND In) Strap Wrench and selection of files.

RELOADING CLASSES:

Basic Reloading

Equipment list for Basic Cartridge reloading

- Rifle and pistol (if you cannot bring one, please let the instructor know prior, one can be provided and please specify what you have so something comparable will be brought)
- Dies (The school has a selection of dies, if you are not bringing your dies, confirm that the school has the dies available)
- Shell holder
- Brass (50 rifle, 50 pistol)
- Powder (1 lb can each for rifle and pistol)
- Bullets (50 each, rifle and pistol)
- Reloading manual (or internet capable device that can get load data from website)
- Scale
- Powder measure
- Powder trickler (for rifle cartridges)
- Powder funnel
- Dial/Digital Calipers (for rifle cartridges)
- Metallic case trimmers
- Chamfering/deburring tool
- Case Lubrication: Lube, Pad, and Neck Brushes
- Primer pocket Cleaner
- Case Loading Blocks

Hunting Rifle Techniques

- Hunting rifle with case
- 50+ rounds of centerfire rifle ammunition
- Ear protection
- Eye protection
- 100 rounds of .22 lr ammunition

Optional:

- Rifle Sling
- Shooting sticks
- Bipod
- Support bag

FIREARMS FINISHING:

Basic Painted Finishes

1 or 2 guns to paint (contact instructor for suitability of individual make and model)
basic screwdrivers (prefer Brownells type)
Pin and roll pin punches in necessary sizes for supplied firearms
small ball peen and soft-faced hammers Cerakote
paint in desired color(s)
respirator if desired (only dust masks will be provided)
masking tape exacto knife stencils safety glasses
notebook

Please e-mail me at iwb2195@yahoo.com to let me know what gun(s) you will be bringing.

Stencil Painted Finishes

1 or 2 guns to paint (contact instructor for suitability of individual make and model)
basic screwdrivers (prefer Brownells type)
Pin and roll pin punches in necessary sizes for supplied firearms
small ball peen and soft-faced hammers Cerakote
paint in desired color(s)
respirator if desired (only dust masks will be provided) masking
tape
exacto knife
stencils safety
glasses
notebook

Please e-mail me at iwb2195@yahoo.com to let me know what gun(s) you will be bringing.

ADVANCED CLASSES I:

(Machining experience not required for these classes but a working knowledge of the subject matter is helpful.)

AK47 Build

- 36" rifle case for the assembled rifle
- 60 rounds of factory loaded 7.62x39mm ammunition
- Eye and ear protection
- AK front sight adjustment tool
- 4oz of firearm lubricant (CLP, RemOil, Ballistol)
- .30 caliber cleaning kit with a copper brush
- Rubber mallet or Polymer striker
- IRWIN Pin Punch set (Item #1080941 Model #IRHT82531)
- Polymer bristled cleaning brush
- Multitool with pliers (Leatherman, Gerber, etc)
- Set of sturdy dental picks
- 6-in Single-cut Bastard Tooth Mill File
- Digital dial calipers (ex. Frankford Arsenal Electronic Caliper #672060)
- Multiple bit screwdriver with #2 Phillips and #6 flat head driver bits
- Pack of 10 shop rags
- 3-4oz of grease (ex. Liqui Moly 2003 Mos2 Long-Life Grease)
- (1) pack Milwaukee 48-89-2505 3 mm RED HELIX Cobalt Drill Bits – Metric
- (1) pack Milwaukee 48-89-2508 4 mm RED HELIX Cobalt Drill Bits – Metric
- (1) pack Milwaukee 48-89-2308 11/64 in. COBALT RED HELIX – Metric
- Latex/disposable gloves
- Flashlight, small
- Q-tips
- Sandpaper (min. 5 sheets ea.)
 - 150 grit
 - 220 grit
- Note taking materials, i.e. notebooks, paper, pens, etc.
- A tool box to secure your personal belongings

Ruger Single Action Revolver

RUGER SINGLE-ACTION REVOLVER COURSE

INSTRUCTOR: HAMILTON BOWEN
STUDENT TOOL LIST

This course is taught with a particular emphasis on the use of simple hand tools. Elaborate fixtures and specialized tooling are nice but not necessary. The course revolves around the New Model Ruger Blackhawk family of single-action but Old Model Rugers and Colt SAAs or similar guns are welcome. The list below will enable students to tackle most any basic single-action revolver tuning and repair project. These tools are available from a variety of sources including:

Brownells
200 South Front Street
Montezuma, IA 50171 (800)
741-0015
www.brownells.com

Midway USA
5875 West Van Horn Tavern Road
Columbia, MO 65203 (800)
243-3320
www.midwayusa.com

MSC Industrial Supply
75 Maxness Road Melville,
NY 11747-3151
www.mscdirect.com

******Safety goggles/glasses**

Basic hand tools:

- 1.) Brownells Mag-Na-Tip screwdriver set or similar. Try to get a set with medium-thick blades.
- 2.) 4 oz. Crosspane hammer
- 3.) Nylon bench block
- 4.) Small pin vise such as the No. 90 from Brownells
- 5.) General-purpose set of drift punches including 1/16, 3/32 and 1/8 in. starter and longer plus a prick punch
- 6.) Brass/nylon-tipped drift punch
- 7.) 6-in. Needle nose pliers with/side cutter
- 8.) ball-hex/Allen wrenches and ball drivers in .050, 1/16 and 7/64 sizes
- 9.) General purpose tweezers
- 10.) Tungsten-stipped scribe
- 11.) Small machinist square
- 12.) Lowe-power (10X0 jeweler's loupe

13.) cheap 1 or 2-in hardware store C-clamps

Files/abrasives:

- 1.) 8-in. American pattern hand files, bastard and smooth cut
- 2.) #0 cut 8-in. Narrow pillar file about ¼ wide
- 3.) 6-in. #2-cut Barrette file
- 4.) 1/8 in. dia. 6-in. Round (parallel-sided, chain-saw pattern) file #0 or medium cut
- 5.) 1/8X1/4 EDM stone 180, 320, 600 grits. Should be about 6 in. long; need two or three of each as they are fragile.
- 6.) A few sheets (9X11) ea. Wet-dry 10, 150, 220, 320, 400, 600 grits
- 7.) EZ-Lap diamond stone 3/4X2 pad fine, medium and course (from MSC)
- 8.) 1/2X6 fine and medium India stones
- 9.) file card
- 10.) If you have a Dremel/Foredom tool, by all means bring it with some 1/4X3/4 Cratex cylindrical bobs in medium/fine grades

Measuring/machine tools:

- 1.) 1-in. Micrometer, if possible
- 2.) 6–8 in. dial caliper
- 3.) thread pitch grade
- 4.) 3–4 ¼ or 5/16 in. HSS lathe tools
- 5.) 60 deg. Center gauge

Odds and Ends:

- 1.) Q-tips
- 2.) Gun oil
- 3.) 1 ½–2 in. masking tape
- 4.) small black indelible magic marker
- 5.) internal lube/grease such as Tetra-Lube or BreakFree
- 6.) Bench lamp with clamp
- 7.) Kuhnhausen Ruger and Colt SA books if you can find them
- 8.) Any parts you wish to install. Be a good idea to bring a couple sets of the small internal parts: hammer, trigger, trigger return springs, bolt, hand, plungers and springs. Grip frame install demo if one shows up. Custom parts welcome; some available at the class.

Precision Barrel Fitting for Auto-loading Pistols

Precision Barrel Fitting for Auto-Loading Pistols

Instructor: Irv Stone

Tool List

Students will be practicing fitting of supplied “scrap” barrels to supplied pistols. This will include instruction on Glock, Sig, Beretta, and Smith and Wesson M&P. 1911 barrel fitting will only be covered if time permits. If students also wish to fit “good” barrels to their own pistol, they will need to purchase the appropriate barrel(s) from Bar-Sto. This will be limited to Glock, Sig, or XD. You can order direct, and will receive special pricing.

Required Tools:

Gunsmith Screwdrivers: Brownell’s Magna-tip or equivalent

Pin Punches: 1/16th, 3/32nd, 1/8th, 3/16th, 1/4”

Small ballpeen hammer: 4-6 oz.

Files:

Pillar Files Regular

Length of cut: 6”

Size: 1/2” x 11/64” No. 2 or No.4 cut

We get ours from Gesswien: No. 2 Part# 637-0620, No. 4 Part# 637-0640 **Plastic**

Mallet:

Gesswein Part# 821-8795 or something comparable.

Measuring Tools:

Micrometer – 0”-1”

Caliper – 0”-6” **Safety:**

Pair of clear safety glasses

Recommended Equipment (strongly recommended)

A good set of Optical Magnifiers, we suggest:

1. Donegan OptiVISOR DA-10, 3-1/2 Power with a 4” focal distance. Or something comparable o Gesswein Part# 270-100 Blue, or 270-1180 Black **Optional:**

Gunsmith Fit Bar-Sto barrel for the model of firearm that you plan on fitting.

Test-fire ammunition (if you plan on fitting a barrel to your pistol) **Instructor**

contact info:

605-720-4000 barstoinfo@uia.net

10/22 Accurization

- Your preferred ammo to shoot (40gn match ammo is suggested, SK rifle match or lapua center X work great)
- Bolt buffer similar to brownells 100-003-804WB or 713-000-100WB
- Volquartsen hammer or hammer sims or trigger kit similar to the brownells 930-122-010WB, Power custom Model: PC-HB hammer bushing
- Lathe turning tools
- Depth micrometer
- Dykem
- 6" calipers
- Indicator (dial or test)
- Screwdriver set
- Hammer (brass or nylon)
- Punches
- Dremel with stone and sanding attachments
- Scope base + optic
- Machinist square
- Small level
- Standard 10/22 or bull barrel 10/22 (takedown variants not suggested)
- 8-40 tap
- Center drills
- Drill index
- Volquartsen extractor similar to the brownells 930-000-010WB
- Small carbide boring bar
- Needle files
- Stone set Medium and fine

Bolt Action Precision Barreling

You will be truing and barreling a bolt action rifle in this course. You may choose to start with an existing rifle or obtain just the action.

It is very important that you email me so that we may talk about your build. Let me know which caliber you intend on chambering. I will advise twist rate and other pertinent info. The school has many chamber reamers that we can use, if the caliber that you would like to do is not in their inventory you are welcome to bring your own reamer or rent one.

Note: This is an advanced course and reasonable machine experience is required. You will be indicating to .0002", threading and chambering a barrel on a lathe. You will also

be using a milling machine, surface grinder and other machinery. We will be on a tight schedule with lots to get done.

The parts that you will need include:

-Complete action suitable for the caliber that you desire. Acceptable actions: Remington 700, Weatherby 1500, Tikka T3, Howa Mini, CZ 550, CZ 527, Savage 110 and others. Message Instructor for approval of action type. Note: You need to confirm that the bolt face and action length are suitable for the cartridge length.

-A good quality barrel blank with the proper bore, twist, length and contour. The blank must be 1.200"-1.250" at the breech end and. You can look at the barrel contour chart of your favorite maker and determine what will work for the stock or chassis that it will eventually be going in.

-Quality Recoil lug .200"-.330" thick (For applicable actions)

-Trigger. I would suggest a Trigger Tech or Timney.

-Talley picatinny scope rail for the action length that you are using. Ask them to open the base for 8-40 screws. For Tikka Area 419.

-If you are threading the muzzle then the intended device must have a minimum of 5/824 threads.

-5/16-24 TPI bolt knob if desired

-Factory loaded match ammunition for test firing and initial grouping.

Basic Tool List:

6" Dial Caliper

6" Steel Ruler

Depth Micrometer (Will have available to borrow)

0-1" Micrometer (Will have available to borrow)

1"-2" Micrometer (Will have available to borrow)

Lathe Tools - For Turning, Threading, Crowning (I would look at Arthur R Warner Co.)

Small carbide boring bar

Hex Key set- Standard

File- Smooth cut

9/64 Carbide Endmill

Royal 8-40 Taper Tap

Edge Finder

60 Degree Thread Gauge Fish Tail

Thread Pitch Gauge Set

Feeler Gauge Set

Reamer and Headspace Gauges if using your own

Standard Punches

Ball Peen Hammer

.001" Dial Indicator

.0001" Test Indicator (Can use a .0005" but the .0001" is preferred)

Noga style Indicator Base

Safety glasses

Dykem

Cleaning Rod and cleaning equipment

Range Rod or gage pins suitable for your bore diameter

The school has a couple of chassis and a scope that we can use for test firing. If you have a stock or chassis that you intend on using please bring it. You can also bring your scope, rings and any range equipment needed.

Keep in mind that I will be bringing some of my tools for the class to use and the school has their tools. Don't worry with purchasing all the required tools if your budget will not allow it. I am sure that we can make it work.

Please contact me with any questions that you may have. Email is best.

I'm looking forward to the class.

-Len Fagan faganl8321@montgomery.edu

Custom 1911 Pistol Build Class (10 DAYS)

NRA Short Term Gunsmithing - Custom 1911 build class – Montgomery Community College

I have attempted to limit the tool list to those tools that are common use tools for working on 1911 pistols and have general use in gunsmithing. I will bring my personal tools and my growing collection of “sets” of tools and measuring devices for use by the class. This will require some sharing across students of specific tools. Tools marked optional in the below list perform a specific function when building or rebuilding a 1911 and are advisable if the student intends to continue work in the 1911 universe.

I will offer for purchase a kit containing stones and rotary tool burrs, bobs, polishing and grinding wheels that are commonly used when working on 1911 pistols. This kit is available for \$65.

Some of the tools/fixtures I will bring are:

Chamber reamers
Lug cutters for barrel fitting
Sear stoning fixtures
Measuring tools specific to the 1911
Installation jigs and fixtures

TOOL AND INSTRUMENT REQUIREMENTS FOR THE CLASS

(Source) MSC INDUSTRIAL SUPPLY CO. (www.mscdirect.com or 800-6457270)

Tapered feeler gages - 00150607 Extra narrow pillar file #0 - 60207404 Extra narrow pillar file #2 - 60207321
Dykem blue - 00264036 .018" feeler gage – 85668614 (becomes a sacrificial filing guide)
3/16" round files (any source)
3/32" sharp tip diamond point - 90606393 (optional)
Extra narrow pillar file #00 - 60207339 (optional)
Extra narrow pillar file #1 - 60207313 (optional)
Micrometer standard - 06407019
BROWNELL'S INC. (800-741-0015) Opti-visor with optional opti-loupe (I like #3, 1.75X) - 255-003-000 Opti-Loupe - 255001-600
Nylon/brass punch set - 080-475-100 JB compound - 083-065-100
Very extra narrow pillar file #0 - 360-312-021
10-8 Bench block - 100-004-369 (we will modify in class)
1911 steel bushing wrench -206-000-043
1911 Screwdriver set - 080-000-444WB or 1911 bit set - 080-000-448WB (optional)

Slide/frame rail file - 080-753-000 (optional) Very extra narrow pillar file #2 - 360-312041 (optional) Pin reamer set - 080-000-699 (Individual reamers could be ordered from MSC or other machine supply company) (optional) Beavertail installation jig - 087-145-886 (optional) Marvel Precision – Ultimate Sear JIG – 588-000-003WB (optional) Single-Stack Trigger Stirrup Die - 080-710-045WB (optional) Trigger Track Stone - 080721-230WB

DEEP RIVER CUSTOM

<https://deedrivercustoms.com>

(optional) Plunger tube staking tool
(optional) Slide measuring tool – standard
(optional) Barrel leg cutter set of 3 + pilot/handle

VARIOUS SOURCES Good quality dial calipers Good quality 1" outside micrometer Good quality needle file set Quality small Allen wrench and screw driver sets Pin punches (1/6" to 5/32") Good quality screwdriver set Cleaning items, patches, pipe cleaners, Q-tips Eye protection Dremel or other brand rotary type tool OR (Optional) Foredom SR rotary tool with chuck type handpiece - Amazon

Suppressor 101

Suppressors 101

Instructor: Ronnie Beal

Tool List

ALL Students Must have an approved ATF Form 1 to attend the class. NO exceptions. For help filing email Alex Williams at williamsa4158@montgomery.edu 910-898-9744

- left and right hand turning tools for lathe, preferably indexable carbide - parting tool for lathe
- a good small(.250dia) and long(2"-3") boring bar, preferably carbide
- drill index (bit sizes between .250 and .500)
- center drill set
- most all work will be done on the lathe but if you plan on making cuts on the mill, bring end mills
- dial or digital calipers
- 1" micrometer
- 1/2" carbide endmill

-5/8" Carbide endmill
- taps are supplied and are optional. .22 cal 1/2x28, .30 cal 5/8x24
10" adjustable wrench
Inch and Metric allen wrenches
Safety glasses

Suppressor raw materials will be supplied by instructor. Each student will be given enough material to make (1) Suppressor. If the given material is compromised by the student they may purchase additional material from the instructor at their own cost. If you intend to supply your own materials, contact the instructor to make sure that they are suitable. Please also use this email for general technical questions about the class.

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