

SHOOTING INSTRUCTION:

Pistol Shooting Fundamentals.b

- 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.

Custom Polymer Grip Stippling

- Glock frame
- Sig P320 Frame Please bring a complete Glock or Sig 320 pistol if you would like to shoot after class, we will be demonstrating the differences between a stock polymer frame pistol and a modified/stippled pistol. If you do not have a complete Glock or Sig to work on, that is fine, you can shoot the demo pistols.
- Dremel (preferably any model above a 200 series, but if that is all you have, we can work with it) https://www.amazon.com/Dremel-3000-1-24-AttachmentAccessories/dp/B005JRJE56/ref=sr_1_2?s=power-handtools&ie=UTF8&qid=1547449418&sr=1-2&keywords=dremel+3000
- Flex shaft to go with the dremel https://www.amazon.com/dp/B0000302Y8/ref=sxts_kp_tr_2?pf_rd_p=8778bc68-27e7-

403f-8460-

de48b6e788fb&pd_rd_wg=UISus&pf_rd_r=1SV3T02QX5YTMPDQG94J&pd_rd_i=B000302Y8&pd_rd_w=S2bgy&pd_rd_r=ac9eddea-9c90-4702-87d7-50562fbfa545&ie=UTF8&qid=1547449456&sr=2

- Sandpaper 120 grit, 220 grit, 320 grit, 400 grit, 600 grit, 800 grit, 1200 grit (don't worry if all you can find is 500 grit or 1000 grit in lieu of 600 and 1200)
- Buffing wheel (dremel attachment that should come in your dremel kit)
- Scissors
- Pencils
- Masking tape
- Electrical tape
- Magazine to insert into your chosen Glock frame you bring to class
- Small flat head screwdriver
- A punch and a curved dental pick to aide in disassembling your frame
- ¼ inch drum rubber mandrels (qty: 8) https://www.amazon.com/uxcell-RubberMandrels-SandingSleeve/dp/B07KWXJRZK/ref=sr_1_4?ie=UTF8&qid=1547449708&sr=8-4&keywords=1%2F4%2BRubber%2BDrum%2BMandrel&th=1
- Dremel Keyless chuck https://www.amazon.com/Dremel-4486-MultiPro-KeylessChuck/dp/B0000302ZV/ref=sr_1_5?ie=UTF8&qid=1547449926&sr=8-5&keywords=dremel+quick+change
- Soldering iron kit with a flat head tip and a fine tip
- A-P3 Engraving burs Qty: 5 (PLEASE ORDER THESE AT LEAST 2-3 WEEKS BEFORE CLASS, THEY MOVE SLOW) <https://www.foreedom.net/product/ak65-high-speedfluted-bur-kit-5pc/>
- For grip reductions: <https://www.brownells.com/gunsmith-tools-supplies/stockwork-finishing/stock-bedding-adhesives/acraglas--prod1033.aspx> (the 2 gun kit is fine)
- Stencils (if you want to hand engrave a SIMPLE design in your frame)
- Modeling clay
- Spare polymer back straps
- Disposable gloves
- Eye pro
- Dust Mask/Respirator
- Ear pro, eye pro, ammunition and spare magazines (if you plan to shoot)
- Notebook and pen

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

Stock bedding

- Bolt action rifle in wood or synthetic stock - Rem 700 or clone (easiest to learn on), Win
- 70, Savage 110 or similar model, Browning A-bolt or X-bolt (NO Ruger 77's please)
- Acraglas Gel kit, Brownells # 081-014-004
- Devcon Steel Putty (if acraglas not available), Brownells # 262-100-101
- Stock scraper, Brownells # 310-150-001 small, or 310-150-002 large
- Pipe Tape, Brownells # 100-001-354
- Bedding Tape 1 inch wide, Brownells # 084-092-101
- Mixing pads, Brownells # 081-031-003
- Acra Release Mold release, Brownells # 081-028-000
- Nitrile gloves
- X-Acto knife #1 and 10 blades
- 5/16" drill bit
- 1/4 " drill bit
- Tongue depressors
- 2 rolls blue shop towels
- 3M 1.88" blue painters tape original with edge lock – do not get the one for delicate surfaces.
- 1 sheet of 180 grit and 320 grit sand paper
- Allen wrench set
- Screw driver set
- Punch set
- Brass and or nylon faced hammer, Brownells #080-001-221
- 1/4 " chisel
- Safety glasses
- Cordless drill (optional)
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Basic Lathe Operation

- | | |
|---|---|
| 1 | Safety Glasses |
| 1 | 60 Degree Center Gauge |
| 1 | Inch Screw Pitch Gauge |
| 1 | 10" or 12" Adjustable Wrench |
| 2 | 1/2" x 1/2' 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

All tools and firearms will be provided

Basic Gunsmithing: Shotgun

- 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 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)

Restoration of Doublegun Stocks and Forends

Student Supply and Equipment List for MCC Course in Reconditioning Vintage Side-by-Side Shotguns

1. Vintage side-by-side shotgun.
2. Wet-dry sandpaper: one pack (3-5 sheets/pack) each of 120, 240, 320, 400, and 800 grit.
3. One 6-piece set of Wood River large contour sanding pads and one 4-piece set of Wood River angle sanding pads, which are available at WOODCRAFT.com (items 145959 and 145960).
4. Ramelson Flexcut 1/4" or 3/16" width micro-chisel, or equivalent.
5. Exacto knife.
6. Fisher octagon inletting scraper, which is available at Brownells.com (item 310-150-003WB), or equivalent.

7. 6" metal ruler.
8. Small forceps, approximately 5"; found in most pharmacies.
9. One package of cotton balls (large or jumbo size).
10. One box of disposable gloves.
11. One can of compressed air.
12. Small plastic bottle, 2-4ounces.
13. Spray bottle, 8-12 ounces.
14. Small glass bowl, approximately 3" in diameter, with cover.
15. Paper towels.
16. Gunsmiths screw driver set (optional).
17. Micrometer (optional)

Basic Kydex Holster Making

Tool List

Required

- Multi-bit screwdriver
- Xacto knife
- Needle nose pliers
- Split joint pliers
- Masking tape/painter's tape
- Sandpaper

- o 220 grit
- o 320 grit
- o Any higher grit that you may want to polish (this is for the edges of the plastic)

- Small hammer (8oz ball peen works great, bigger hammers work as well but aren't necessary)
- Optional
- Heat Gun
- Dremel
- o Polishing bits
 - 320 (purple) polishing head(s)
 - Felt bobs
- o Sanding Drums (Large and Small)
 - Wood clamps (bar style, at least 12")
 - Drill and drill bit set

Basic Gunsmithing: Pistol

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

Basics of Bullet Casting

gloves

safety glasses

pen/pencil

notebook (prefer 3 ring binder as my handout(s) will be in this format)

student may bring any molds (in good repair) that they'd like to use to cast bullets to fit their firearms. I'll bring others along in case no students bring any molds.

Rifle Load Development

Materials Vendors

>25pcs NEW Brass Lake City, Star-Line, Lapua, Nosler, Hornady, Remington UMC, Winchester, Norma,

100 Projectiles (Based on Caliber and Weight) *Any questions regarding the recommended bullet weight/style can be directed to instructor (336) 470-4114*

Barnes, Lapua, Hornady, Berger, Nosler, Sierra

100 Primers (Based on cartridge requirements) *Any questions regarding recommended primer selection can be directed to the instructor (336) 470-4114* Winchester, Federal, CCI

Reloading Die Set (Full Length is recommended for any semi-auto rifles, neck sizing is recommended for bolt-action rifles *when getting neck sizing die set, ensure that you also get a body sizing die as well, whether it is included in the set or not*) Forster, Dillon, Redding, Hornady, RCBS, Lee

Decapping Die (This is a separate die from the sizing die) Lee, RCBS, Redding

At least 1lb of powder (This will be determinate based upon the cartridge, bullet selection and desired load data) *Any questions regarding powder selection can be directed to the instructor (336) 470-4114 Hodgdon, IMR, Hornady, Alliant, Vihtavouri, Accurate, Winchester

Calipers Any brand with .001" graduations

Case Lube Hornady ONE-SHOT, Redding Imperial Sizing Die Wax, I recommend making your own case lube if possible. If you wish to do so, I recommend Lanolin Oil (specifically the oil, not paste or cream) and 99% Isopropyl. Typically in a drug store you can find 93% Isopropyl in rubbing alcohol, however for best results you need 99%. The simplest answer to this is ISO-HEET (in the red bottle) this is often on clearance at Wal-Mart, but can be found in any auto parts store. You will likely need at least 2 bottles.

Loading Block Frankfort Arsenal, Lee, RCBS, etc

Powder Trickler Frankfort Arsenal, Redding, Hornady, etc

Rifle Cleaning Supplies Cleaning Rod, multiple brushes, patches, copper solvent bore cleaner, CLP

Ammo Box/Case MTM seems to have this market under its thumb, although Amazon may have some better deals.

Medium Sized Adjustable Wrench Any Brand

OPTIONAL MATERIALS

Single Stage Reloading Press For starting out, any single stage press will work well, look for the most bang for your buck. Lee anniversary kits seem to have everything you need to get the ball rolling in reloading. As you progress, if you enjoy the process and begin to get serious, you can step up to the Forster Co-Ax. This is the best single stage press, short of a benchrest style press that will run into 4 digit prices.

Case Tumbler I personally recommend a rotary tumbler for wet tumbling, however have had great results using an ultrasonic cleaner followed with vibratory tumbling.

Ultrasonic Cleaner Harbor Freight sells a pretty competitive ultrasonic cleaner, use with Lyman Turbo Sonic case cleaning solution

Tumbling Media Walnut Shell for cleaning, Corn Cob for polishing

Small Food Dehydrator For drying brass after ultrasonic cleaning or wet tumbling.

Hornady Bullet Comparator Attachments for your calipers to accurately determine bullet seating depth

Case Trimmer Forster Collet Style is the most reliable, however any case trimmer that can also turn necks as well will work.

Reloading Scale Either a beam or electronic scale that weighs in grains (gn) I would recommend either the RCBS 10-10 or the Hornady Lock-N-Load bench scale (unless you wish to use a scale/powder dispensing unit.)

Powder Measure/Thrower Any unit will work ok, as we will be trickling to our final charge.

Primer Pocket Uniformer Any brand

Meplat Trimmer Any brand

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.

Restoration of Fluid-Steel and Damascus-Steel Shotgun Barrels

Student Supply and Equipment List for the Course in Reconditioning Barrels of Vintage Double-Barrel Shotguns

1. Two sets of barrels.

2. Wet-dry sandpaper: two packs (5 sheets/pack) each of 120 and 240 grit; one pack each of 320 and 400 grit.

3. One 6-piece set of WoodRiver large contour sanding pads and one 4-piece set of WoodRiver angle sanding pads, which are available at WOODCRAFT.com (items 145959 and 145960).

4. One package of BRIWAX oil-free steel wool, extra fine (#0000), which is available at WOODCRAFT.com or Amazon.

5. Flat bastard cut mill file, 8" or 10" with handle, available at True Value and most other hardware stores.

6. Wire file cleaner, which is available at True Value and most other hardware stores.
7. Small forceps, approximately 5"; found in most pharmacies.
8. One package of cotton balls (large or jumbo size).
9. One box of disposable gloves.
10. Paper towels.
11. Small glass bowl, approximately 3" in diameter, with cover.
12. Scissors.

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.)

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 5/8-24 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

AR-15/ AR-10 Custom barreling

AR-15/AR-10 Barreling Class Tool and Parts List 2020

You will be working on either an AR-15 or large chassis AR in this class You may choose to build a complete rifle or a complete upper. You can start with a complete rifle or just the parts.....Keep in mind there are basically two patterns DPMS and Armalite.

Here are some of the caliber choices for the AR-15: .204 Ruger, .223 Wlyde, 5.56, 6.5 Grendel, .458 Socom or others. For the large chassis you may choose to chamber for .308 Win, 7.62 Nato, .260 Rem, .243 Win, 7mm-08, .338 federal, 6.5 Creedmoor or others. Let me know which caliber that you intend on chambering. If the caliber that you would like to do is not on the list then contact me. You are welcome to bring your own finish reamer.

Note: This is an advanced course and reasonable machine experience is required. You will be indicating, threading and chambering a barrel on a lathe. You will be using a milling machine, grinder, blast cabinet and other machinery.

The parts that you will need include:

-A good quality barrel blank. I prefer to use a cut rifled barrel for AR work. (The blank must be 1.000" at the breech end for the AR-15 and 1.200" at the breech end for the large chassis and have enough meat at the gas port location for the diameter of the gas

block that you are using. In most cases I like a .875" diameter gas block. You can look at the barrel contour chart of your favorite maker and determine what will work.)

-Bolt Use a good quality bolt that has the proper bolt face diameter for the cartridge that you are using. (**Large Chassis Notes:** If chambering anything smaller than a .30 caliber bore then you need a bolt with a smaller diameter firing pin. DPMS are around .080" and an Armalite is around .068". RCA and JP offer a bolt with a smaller firing pin. If using an Armalite bolt then you need to use a complete Armalite bolt carrier group.)

-Lower receiver

-Upper receiver

-Barrel extension (I suggest purchasing a Bat Machine barrel extension. Don't purchase the oversize extension.)

-Bolt Carrier assembly

-Charging handle

-Lower receiver parts kit

-Gas block (Minimum .750", .875" suggested)

-Gas tube proper for your gas port location

-Buttstock assembly

-Pistol grip

-Free float handguard assembly that is compatible with height of the upper receiver that you are using.

-Trigger

-Muzzle device with 5/8-24 threads

-Magazine

-Factory loaded ammunition for test firing

Basic Tool List:

6" Dial Caliper

6" Steel Ruler

Depth Micrometer

1" Micrometer

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

Hex Key set- Standard and Metric

Files

Drill Bit Set

Edge Finder

60 Degree Thread Gauge

Thread Pitch Gauge

Feeler Gauges

Reamer and Headspace Gauges for calibers other than specified in the class description

Roll Pin Punches

Standard Punches

Roll Pin Holders

Hammer

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

Optional:

- AR-15 or AR-10 Barrel Wrench
- M4 Stock Wrench
- Strap Wrench
- Torque Wrench
- Barrel Extension Wrench
- Bench Block
- Upper Receiver Blocks
- Red Loc-tite
- Blue Loc-tite
- 1/8" drill bit
- 1/8" reamer

Keep in mind that I will be bringing my tools for the class to use and the college has their tools. Don't worry with purchasing all the required tools if your budget will not allow it. I will also bring pins, Loc-tite, and extra AR-15 related parts.

Please contact me with any questions that you may have.

I'm looking forward to the class.

-Len Fagan
910-898-9600 ext. 743
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 800-645-7270)

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 - 255-001-600
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 - 360-312-041 (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 - 080-721-230WB

DEEP RIVER CUSTOM
<https://deerivercustoms.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

- 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 bny 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.

Contact Ronnie Beal: B-Barms@hotmail.com

KNIFE MAKING:

Tomahawk Forging

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Basic Belt Grinding Skills

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Basic knife making 101

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Basic Knife Sharpening

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Intermediate Knife Making 102

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Advanced Knife Making 103

- Eye protection
- Hearing protection if you have sensitive ears

- None flammable shoes preferably leather.
- Work apron
- Notebook

Basic Folding Knife Making

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

D-Guard Bowie Knife

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Advanced Folding Knife Making

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Holiday Knife Making

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook

Damascus forging

- Eye protection
- Hearing protection if you have sensitive ears
- None flammable shoes preferably leather.
- Work apron
- Notebook