

# **FULL TIME GUNSMITHING**

## **TOOL LIST**

Students enrolled in the program are required to purchase their own personal hand tools, gun cleaning supplies and consumables. The first list of materials the student should have with them when the fall semester begins. The second list refers to materials the student is expected to have as they progress through the program. It is suggested the student make plans to purchase the materials from the second list as needed. Prior to each class the students will be informed of any special materials required for the following week to ensure the students have the opportunity to have them ready for the class. There may be additional materials the student will want to purchase for their classes at their discretion.

### **FIRST LIST**

- Safety Glasses
- Parrot Multi Vise
- Layout Fluid (i.e. Dykem)
- Steel or carbide scribe
- Steel Machinist Protractor- General
- 4- 5/16" square High Speed Steel (HSS) tool bits, 2 1/2" long
- 60° Center Gauge
- #3 Center drill
- Quality 6" dial calipers
- 6" steel rule
- Chip brush
- Rags
- File handles
- Cutting oil
- 8-10" Mill files (1 ea. of the following)
  - Bastard
  - Second cut
  - Smooth
- Hacksaw with quality blades, 24-32 Teeth per inch
- 4 oz. ball-pein hammer
- Assorted flat blade screwdrivers (fixed blade, not magnetic tip style)
- 10" adjustable wrench (crescent, etc.)
- Allen wrenches, standard and metric
- A tool box to secure your personal belongings- must be bench top, not roll-away type
- 2 padlocks for securing bench and locker spaces
- Note taking materials, i.e. notebooks, paper, pens, etc.
- Optional: Shop coat or apron

Students are required to provide the following steel for Machine Shop classes, it can be purchased from any steel supplier or can be purchased from a local supplier that will deliver directly to the gunshop once the semester begins.

- Cold Rolled Round Stock, 6 foot lengths ea.-  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ " diameters
- Cold Rolled Round Stock, 10 foot length-  $1\frac{1}{4}$ " diameter
- Flat Bar Stock, 24 inch length-  $1$ "x $2$ " and 24 inch length of  $\frac{1}{2}$ "x  $1\frac{1}{2}$ "
- Aluminum bar stock, 7 inch length-  $1\frac{1}{4}$ "x  $3$ "

## SECOND LIST

- Files
  - Three corner
  - 3/16" chainsaw
  - 5/16" chainsaw
  - Needle file set
- File card
- Stones, 1/2" x 1/2" x 6 inch length
  - Coarse
  - Medium
  - Fine
  - Extra fine
- Dial indicator, 0-1" w/ magnetic base
- Cleaning supplies for firearms
  - Rods
  - Brushes
  - Jags
  - Patches
  - Solvents
- Pin punch set (good quality and extra 1/16")
- Depth micrometer, 0-1"
- Various pliers, i.e. needle nose, locking, etc.
- Sandpaper (min. 5 sheets ea.)
  - 150 grit
  - 220 grit
  - 320 grit
  - 400 grit
- Steel wool, '0000'
- Aluminum oxide general purpose shop rolls 1" wide 220 and 320 grit
- Acetone
- Simple Green w/spray bottle
- Breakfree gun oil
- Toothpicks
- Q-tips
- High and medium strength thread locker
- Dust Masks
- Dremel or Foredom tool with accessories
- Masking tape
- Welding Helmet w/#10 lens - Tig
- #5 welding goggles
- Thin leather welding gloves (i.e. TIG gloves)
- Stainless Steel wire brush, small
- 1/16" 2% Thoriated Tungsten welding Electrodes (red ends)

- Quality drill index, including Numbered, Fractional and Lettered sets
- Mechanical Edge Finder
- End Mills, center-cutting HSS
  - 1/4"
  - 3/8"
  - 1/2"
- Tap sets, including the following:
  - Standard up to 1/2"
  - Set that includes 6-48, 8-40 threads, similar to 'Brownells #2 Tap Set'
- Tap Fluid
- Tap Handle (may be included in set)
- Propane Torch
- Tooth brushes
- Small Baking Pans to hold parts
- C clamps
  - 3", 2 ea.
  - 5", 2 ea.
- Tape Measure
- Cross test level
- Mallet, 10-12 oz. non marring
- Scissors
- Flashlight, small
- Latex/disposable gloves

## RESOURCES

Brownells	800-741-0015	<a href="http://www.brownells.com">www.brownells.com</a>
Midway	800-243-3220	<a href="http://www.midwayusa.com">www.midwayusa.com</a>
MSC	800-645-7270	<a href="http://www.mscdirect.com">www.mscdirect.com</a>
Modoc Steel	530-233-2655	(local steel supplier)