

Cylinder & Slide, Inc.

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1911 Custom Pistolsmithing Class

PURPOSE

To provide a hands-on class which teaches professional Pistolsmithing theory and the techniques needed to build a "state of the art" custom 1911 style semi-auto pistol using hand tools.

SCOPE

The student is provided information on how to properly modify the 1911 style pistol employing the use of hand tools. Students are instructed in doing proper safety checks of the 1911 along with learning proper technique for the installation of the premium after market accessory parts needed to produce a "state of the art" custom pistol. Starting with a parts kit the student will finish the class with a fully assembled and functioning 1911 pistol.

Some of the subjects covered

- 1) Shop safety rules
- 2) Series 80 & Schwartz Safety Systems
- 3) Internal Polish and Deburr of all Critical Areas
 - a) Slide
 - b) Frame
- 4) Slide Tightening
 - a) Peening method (demo only)
 - b) Slide to Frame Fitting of Oversize Slide and Frame Rails
- 5) Ejection Port Modifications
- 6) Beavertail Grip Safeties, Installation of
- 7) Fitting Ambidextrous Thumb Safeties to the Frame and Grips
- 8) Fitting the extractor
- 9) Fitting the firing pin stop
- 10) Barrels
 - a) Fitting a semi-drop-in barrel to the pistol
 - b) Fitting the barrel bushing for accuracy and reliability
 - c) Throating the Barrel & Frame
 - d) Barrel Crowning
- 11) Triggers
 - a) Fitting the trigger to the frame
 - b) Trigger Pulls
- 12) Sight Fitting
- 13) Recoil Spring Weights and Their Function
- 14) Carry Beveling the Complete 1911 Pistol (demo only)
- 15) Magazine Well Beveling (demo only)
- 16) How to cut the front strap for high grip (demo only)
- 17) Powers Sear Stoning Fixture-How it works
- 18) Proper Lubrication of the 1911

Class Requirements

Kuhnhausen's Shop Manuals Vol I & Vol II on the 45 are recommended as a primer to this course. There are many good general pistolsmithing tips and techniques contained in these books. This will give you a good base to start from. Vol II contains drawings of the various parts of the 1911 with dimensions included. This information will be invaluable in trouble shooting the various problems encountered when you start to work on a pistol that has had previous work done and does not function properly. Cylinder & Slide, Inc. has both of these books available for sale.

Since we end up doing a lot of hand filing in class when it comes to fitting parts, it is highly recommended that you purchase a new 6" or 8" Bastard Cut mill file, handle and file card from your local hardware store or industrial supply house and practice filing before you attend class. The file card will allow you to keep the file teeth clean of filing particles. This will allow you to keep each filed surface smooth and gouge free. Being familiar with how to use a file will help you in class when it comes to file fitting the parts correctly. As practice get a round piece of cold rolled soft steel from your local machine shop. Take your file and try your best to file a perfect cube from the piece of steel. The cube only needs to be about 1" square. This will teach you to file straight and true to another surface. If you learn to file before you arrive, you will have more time to learn the subject matter rather than learning to file. For more information on filing see our web site at www.cylinder-slide.com under technical information, click on "An introduction to filing."

Cylinder & Slide will provide the student with all the parts (from the parts set chosen) and tools (except for a Dremel or Foredom Tool) necessary to build their pistol in class. The reason we provide the complete parts set is because it would be impossible to teach six students with six different manufactures parts trying to install them all at the same time. This would cause too many time delays that we could not afford. This is why we require everyone in class to basically build the same pistol with just a few options to choose from. There is more course material to teach than there is time to teach it in. It's sort of like trying to put 10 pounds of "STUFF" in a 5 pound sack to teach this much course material in 5 days. You will have a choice of sights, ambly safety wing style and trigger pull set. The Options Sheet is located at the bottom. You will be contacted before the class date as to which parts set you would like to build your pistol out of.

To give you an idea of the pistol you will build in class, we would sell a similar model built by us for approximately \$2,800.00 to \$3,000.00.

Students are required to supply the following listed items for class. **Please bring them with you the first day of class.**

1. Safety glasses with side shields
2. Mini Mag type flashlight
3. Shop towels (Minimum 4)
4. Cotton (Jersey type) gloves
5. Black or Red permanent magic marker
6. Pencil
7. Old long sleeve shirt (to protect arms from metal chips)

Variable speed Dremel or Foredom tool with 1/8" collet. We highly recommend the Dremel 4000 Variable Speed Tool if you don't have a Foredom. It is comfortable to hold and runs extremely smooth. (If you are using a tool with a flexible shaft you must bring the tool hanging stand on which to hang your power tool. The stand needs to clamp to the bench.) **NO Battery Powered or Chuck Collet Dremel Tools allowed in class.**

The following pricing does not include transportation, lodging or meals.

Tuition and tool rental for classes in Fremont, NE is \$2,500.00

Tuition and tool rental for classes taught elsewhere is \$2,800.00

The Parts package will run from \$1,479.98 to \$1,559.14 depending on the available options selected. Please refer to the 1911 Options listed on the last page. We will need to ship your complete pistol or the frame to an FFL Dealer if you reside outside Nebraska. Additional shipping charges will be added where applicable.

A \$500.00 deposit is required to secure a class spot which is due at time of class sign up. We will need to have final payment before class starts. You can make payments monthly so as not to hurt the pocketbook all at once if desired.

Cancellation/Refund Policy

If you register for the class and then are unable to attend the following applies:

If you cancel more than 30 days from the start of the class we will refund all but \$100.00 of your total deposit.

If you cancel in less than 30 days of the course starting date, your initial \$500.00 deposit on the course fee will not be refundable. This is for the simple reason that it becomes extremely difficult to fill class slots on short notice.

We guarantee that you will get your money's worth in this course. If we need to work for 9-10 hours a day in order to cover everything, that is what we will do.

Powers 1911 Sear Jig Set (Highly recommended) Includes Jig with 1911 adapter, tuned and set properly by C&S, with a 3 stone set. This is used to stone sears for trigger jobs. The Sear Jig Set runs \$270.00. For those students who already have a Powers Sear Jig we offer the tuning and proper setting of their jigs for \$65.00

*Due to the type of metal used in the factory hammer and sear it is not advisable to attempt to perform a trigger job on them. We will cover this discussion in class; however, if you would like to be able to perform the accurate stoning of angles on sears and shortening hammer hooks, you should consider the purchase of a Powers Jig.

1911 Custom Pistolsmithing Class Options

Students are allowed to select several options that they would like to incorporate into the custom 1911 that they will build in class. The Frame & Slide used in class are Carbon steel and made specifically for the class. Only the following options are available with corresponding pricing.

Frame and Slide Combinations (45acp):

All frames now feature 25-LPI checkering and a unique serial number

Government
Commander

Sights:

Heinie Ledge LoMount, Black
Champion (Bomar Style) Adjustable Rear

Amby Safeties:

Blue, Wide (CS0077WB)
Blue, Tactical (CS0077TB)

Trigger Pull/ Hammer Sets:

CS0085 Tactical 4.5#
CS0212 Tac II 4#
CS0219 Tac II SS 4#
CS0226 Low Mass Match 3.5#

Triggers:

CS0194 (Short, Serrated Face)
CS0194SR (Short, Smooth Face)
CS0348SR (Medium, Smooth Face)
CS0181 (Long, 3-hole, Serrated Face)

Parts Package Price for:

Trigger Pull Set	Heinie Ledge Rear Sight	Champion Rear Sight
CS0085	\$1,481.04	\$1,518.18
CS0212	\$1,489.44	\$1,526.58
CS0219	\$1,512.36	\$1,549.49
CS0226	\$1,522.00	\$1,559.14

Tools and Parts Are Subject To Change Without Notice