Basic Machine Shop (Core Class for Certificate)

This class offers instruction and hands-on experience in machine tool operation. Students will gain experience with the metalworking lathe and milling machine in the manufacture of parts and tools.

Bill Sturtevant is a graduate of the Trinidad State Gunsmithing program, Bill joined the full-time Gunsmithing faculty in August 2014. Bill has owned and operated Bill’s Gun Shop in Pueblo, Colorado since 1990 and is known for producing quality custom and semi-custom firearms. The shop has a well-established reputation for completing complex repairs others were not able to do. He has completed several firearms that were used to gain world records in long distance accuracy. Bill has also performed contract machining for several large manufacturing companies in Colorado Springs, handling production runs of intricate parts.

Bill Sturtevant

Basic Machine Shop Tool List

**Required Tools:**
- #2 center drill
- 5/16" or 1/4" HSS lathe tool bit blanks
- 6" dial caliper or 1" micrometer
- 6" steel rule
- 60-degree center gauge
- Assorted files with handles
- Carbide tipped scribe
- Emery cloth: 120, 220, 320 and 400 grit
- Layout dye
- Safety Glasses
- Thread pitch gauge

**While not required, assorted hand tools can provide a useful addition:**
- 6" or 8" adjustable wrench
- Allen wrench set up to 3/8"
- Center punch
- Gunsmith pin punch set
Hammer
Pliers
Screwdrivers

A list of required tools is also enclosed. Please note that this list is bare minimum. If you have other tools or supplies that may be useful, bring them. You can never have too many tools.
Contact your instructor to make sure your project will fit our facilities and time restraints

*******************************************************
*****