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.

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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

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