Advanced Machine Shop (Core class for certificate)

This class will provide further instruction and practice on machine tool operation. The students will be instructed in rifle barrel re-barrel techniques as well as some advanced machine shop operations. Projects will vary according to individual interests.

PREREQUISITE: Basic machine shop or consent of instructor.

Keith Gipson has been a full time Gunsmithing instructor at TSJC since 1987. Keith is an experienced machinist and gunsmith who specializes in gun repair, metalworking, and CNC programming.

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Advanced Machine Shop Tool List

Barrel fitting requires that you provide one pre-contoured barrel, and an action that suits the class project. If you have more needs or would like to include something else, bring two. Call if you think you want other instruction.

Required Tools:
#2 or #3 Center drill
1/2", 4 Flute double end mill
5/16" - 3/8" HHS tool bits (and/or appropriate turning and facing carbide bits)
6" Dial caliper
6" Steel rule
60° Thread center gauge
Assorted files (with handles)
Carbide tip scribe
Emery cloth: 80, 120, 240, 320, 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
Gunsmithing pin punch set
Gunsmithing screwdrivers
Hammer
Pliers
Tool box

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