

**Tool List for SkillsUSA Precision Machining Technology Competition**  
**March 27, 2010**

**Safety Glasses and Safety Shoes (steel toe) are a requirement!**  
**(No one will be permitted to compete without them)**

1. Pen, Pencil, Scrap Paper/Tablet
2. Trigonometry Tables
3. Pocket Calculator
4. .250" Reamer
5. .375" or .5" Square Tool Bit, ground for facing cold rolled steel
6. .375" or .5" Square Tool Bit, ground for turning cold rolled steel
7. .375" or .5" Square Tool Bit, ground to cut .125" external groove
8. .375" or .5" Square Tool Bit, ground for chasing 60 degree threads  
*Solid Carbide or Carbide Indextible Insert tooling will not be permitted!*  
*Pedestal grinders will be available for dressing high speed steel tools if needed.*
9. 0-1" Outside Micrometer
10. 6" Dial Calipers
11. 1" Travel Dial Indicator with Magnetic Base (Using as travel dial on Lathe)
12. "Three Wires" or 0-1" Thread Micrometer for 13 TPI
13. Combination Square or Protractor
14. Indicator (for aligning a mill vice)
15. Edge Finder
16. 6" Steel Rule
17. .5" 4 Flute End-mill
18. .25" 4 Flute End-mill
19. #2 and #3 Center Drills
20. Fractional Drill Set
21. 90 degree Countersink
22. Fly-cutter with Tool Bit for steel (3/4" shank maximum)
23. Flat File and 320 grit Sandpaper (for aid in de-burring parts)
24. Set of Allen Wrenches to 3/8"
25. 10" or 12" Adjustable Wrench
26. Small Dead Blow Hammer (for vise work)

The following items will be available in the shop (you may bring your own for convenience).

1"- 2" Micrometer  
2" - 3" Micrometer  
3" - 4" Micrometer  
Depth Micrometer Set  
Container of cutting fluid (oil) for aluminum and steel  
Parallels