

Precision Machining Technology
MO SkillsUSA 2012
Tool List

Supplied by the contestant:

- Toolbox with name
- Machinist Handbook (or) reference book
- 3/8th threading tool bit (High Speed Steel, no Carbide)
- 3/8th L.H. grooving tool bit .150 wide x .250 long (High Speed Steel, **no carbide**)
- 1/2" diameter 4 flute center cutting, end mill (High Speed Steel only – No double-end endmills or coated endmills)
- 0" – 1" micrometer (no digital)
- 1" – 2" micrometer (no digital)
- 0" – 3" depth micrometer (no digital)
- 0" – 6" dial calipers (no digital)
- 6" Scale
- Thread Center gauge
- De-burring file (Mill) with handle
- Ball peen hammer
- Dead Blow Hammer or brass hammer
- #4 - 60 degree center drill
- Scientific calculator
- Pad and pencil (one per person)
- Edge Finder
- 5/16" sharpened drill bit
- Horizontal dial test indicator that reads in .0005"
- Magnetic base to fit the indicator to use on the mill and/or the lathe
- One page, typewritten resume

Contest Equipment:

- Vertical Milling machine with DRO
- Lathes without DRO, 4 jaws chucks mounted on the spindle.

Notes:

Contestants are to bring the following tools and list to the contest site. **There are to be no additional tools allowed in toolboxes.** All tool bits must be sharpened and ready to go. Boxes must have names on them. **No Exceptions. This must be a fair competition. If an individual is caught using tools other than what is on list they will have points deducted.**

If you do not have all the items listed here, you will not be disqualified, but will only hurt yourself in the competition. If you have extra items, they will be removed and it will be your responsibility to retrieve these items after the competition. We will not send them back to you at our expense.

NO ELECTRONIC DEVICES ALLOWED IN THE CONTEST AREA.

Remember to prepare for the Professional Development (PDP) Knowledge test!

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Clothing requirement:

- Appropriate job-related clothing or
- Blue jeans (no rips or tears) and SkillsUSA conference t-shirt
- Black or brown leather work shoes or boots
- Safety glasses with side shields or goggles

Note: No shorts, open-toed shoes or mid-ribs exposed.

If the school uniform is worn, the nametag or logo must be removed or covered.

Pre-Contest Meeting and Contest:

Date: Friday, March 30

Time: 8:00 a.m. – Completion

Pre-Contest Meeting Location: Nilges Tech Center - Room 224 - LSTC (4)

Contest Locations: Nilges Tech Center - Room 130 & 224 - LSTC (4)

Remember to prepare for the Professional Development (PDP) Knowledge test!