

2025 Oklahoma SLSC State Memo

Precision Machining

**NO SUBSTITUTIONS WILL BE ALLOWED AFTER FRIDAY, MARCH 28, 2025
THERE WILL BE NO SUBSTITUTIONS ALLOWED ON-SITE AT THE
CONFERENCE**

Date, Time and Location

The 2025 State SkillsUSA Precision Machining Skill Championships will be held Wednesday, April 23rd at Canadian Valley Technology Center, El Reno Campus. The contest orientation will begin promptly at 8:00 a.m., and the contest will start at 8:30 a.m.

For safety purposes each contestant is to have a copy of their Personal Medical and Liability Release form with them at the contest site. The form is to be given to the contest chairman when signing in for contest. You must use the form found on the SkillsUSA web site.

Online Testing

Contestants will be judged on their SkillsUSA knowledge through Professional Development test. Testing will be completed online and proctored through their technology centers. Online testing opens March 14, 2025, and closes April 4, 2025.

Medical Forms and Resumes

The state supplied medical forms are required. No others will be accepted at the contest.

All contestants will be required to submit a typed resume also turned in when signing in. If any contestant does not submit a resume to the contest chair, penalty points will be assessed.

Transportation

You must provide your own transportation to the contest and to the contestant meeting.

Lunch

A lunch break will be provided and students will be expected to remain on campus for lunch. Students should bring approximately \$10.00 for lunch.

Clothing Requirements

Jewelry including rings and watches are not allowed during the contest. Contestants should not wear clothing that has school identification or name visible to the judges. Those contestants wearing program uniforms will need to cover all identifying patches. Proper clothing includes name badges placed on chest left hand pocket area.

Awards Ceremony

Winners will be recognized at the General Session on Tuesday morning, April 29th, at 9am at the Arvest Convention Center in the Grand Hall. All competitors must wear official SkillsUSA dress to the Awards Session, where winners are announced. Competitors who are not dressed appropriately or lack official attire will be denied access to the awards stage. Students must be present when their contest is announced. If a student is improperly dressed, absent, or misses their contest being called, the production will not be paused for any reason, and they will forfeit their opportunity to go on stage to receive the award. No exceptions will be made. No hats or sunglasses will be allowed to be worn on stage.

- Official dress for men: Official blazer, jacket or sweater; black dress slacks; white dress shirt; plain black tie with no pattern or SkillsUSA black tie; black socks and black shoes.
- Official dress for women: Official blazer, jacket or sweater; black dress slacks or knee-length skirt with business like white, collarless blouse or white blouse with small, plain collar that may not extend onto the lapels of the blazer, and black dress shoes

Judges

Additional judges are needed...please contact Marc Belew, mbelew@cvtech.edu, with the names of those that can assist.

Rules and Regulations

There is no national contest for manual machining, however we will follow the former national rules, regulations, and the contest content as closely as possible.

Material will not be provided. Each contestant will need to bring his or her own material.

Tools and Supplies

Continue to check this page until April 1st to confirm any materials to be supplied or to be brought.

<p>Mill</p> <p>The mill project will be made of aluminum. The material will be 4. x 4. X 1.00 with all dimensions to be finished by contestants.</p> <p>**Tools required:</p> <p>Face mill or fly cutter - 3" Max diameter, End mills; 3/8", 1/4" & 1/2" Center drill, Drill bits; #7 Tap. 1/4 x 20. 27/64 drill, 1/2x 13 tap, Set of Parallels Edge finder. I will have collets and drill chucks on the machines but you are welcome to bring your own R8 collets if you like.</p>	<p>Lathe</p> <p>The Lathe project will be made of 12L14 or 1045 cold rolled steel material . The material will be 2.0 OD x 7.0 long. You can bring material faced to length and center drilled on each end.</p> <p>**Tools required:</p> <p>Center Drill, Facing & turning tool, Threading tool, Grooving tool; .125" wide max. 1 3/8x12 tpi nut, 1 1/4x 12 hex nut, 1 x 14 hex nut Tool shank size is 3/4 max.</p>
<p>Measurement & Inspection</p> <p>Steel ruler; 6" and 12" OD Mic's, 0-1" (.0001 scale) & 1-2" (with standards) 6" Caliper 1-2" OD Blade Mic (can use 6" caliper) Depth Mic with standards;</p>	<p>Other tools/Equipment</p> <p>- Pencil - Paper - Calculator - Machinist Handbook or Shop Reference for Students and Apprentices - De-burring tools - State Medical release form - Safety glasses with side shields. 0-1 OD micrometer 1-2 OD micrometer, dial calipers, steel ruler, Thread pitch gauge, Thread fish,</p> <p>**And any other tools you think you might need</p>

Tool list and information

Each contestant will be required to bring toolboxes and their tools. Contestants should bring a Minimum of the tools listed above. Must bring a 1 3/8 x 12 tpi nut, 1 1/8 x 12 tip nut, and a 1x14 tpi nut. for a gauge. Gauge nut will remain with part through inspection. Sharing boxes or tools will not be allowed.

Safety

For safety reasons side shields and safety glasses are required. The maximum rpm are on the mill 1500 rpm and the lathe 1000 rpm. Any minor safety violations there will be one verbal warning, one warning with 25pts off and on the third violation disqualification. Major violations will deem automatic disqualification at judge's discretion.